

Scanned by CamScanner

	class sum the class of child
10.	member whose vaccers is governed by three
	raccess specifiers private, protected or public.
	It is used to encapsulate data and function
Post	together in a single unit. It act as a blue
14 ' A	bulnt for similar levids of objects as it defines
	together in a single unit. It act as a blue puint for similar kinds of objects as it defines the properties & behaviour of objects.
	Generally a class specification has two parts:
	1. Class declaration
	1. Class declaration 2. Class function definition
	The state of the s
	Syntax -
	AND THE STATE OF T
	Class class name
	specifier: (Variable declaration)
34	data type variable name;
	data tipe - variation -
	Data member
No.	Lacilier (function declaration).
The second	specifier (function declaration). ereturn type function name (Args)
	\$
1 6	member function function definition
	3 · Poirwallal
	3;
arnolite	to Elimination of reduction and code changle sint
12.70	For example - Massalar pristains probables per
11	
ment	2- Higher punduativity and neduced down
J. State	

		Page No. Date: www.mirajmulticolour.com
	7 1	class sum -> class.
M	82	member whose societs is opened by Hi
14	blio.	perivate int a by sum =0;
h-	CANAL TO A TO	The state of the s
h_	, a,	The state of the street of the state of the
-	2010	contest two nos
m_		. abocin >> a>> bidad & chilhagang all
		3
-	: £3.	Levely a class (Invends shows and
	<u> </u>	£
	- · ·	Cout<< endlt< Sum = "<< a+b;
1,		2. Class function difficilizes &
_		3;
-		- Suntax
1 14		Void main 12
		Class class name
		class A; A getnum (); A showsum ();
		A. Aboutumers at at all
)	and hu'
The state of the s		getch w; sadmen stod
The same		- (neither declaration) -
	(A)	Auantages of ODP's. worten
Temp	. 0	
ring.		Some key advantages of OOPs includes the following:
V-1		following:
	1	Elimination of reductant code through inhoustance
		Elimination of reductant code through inhoustones by extending existing classes
	2.	Higher productivity and reduced development
Comment		

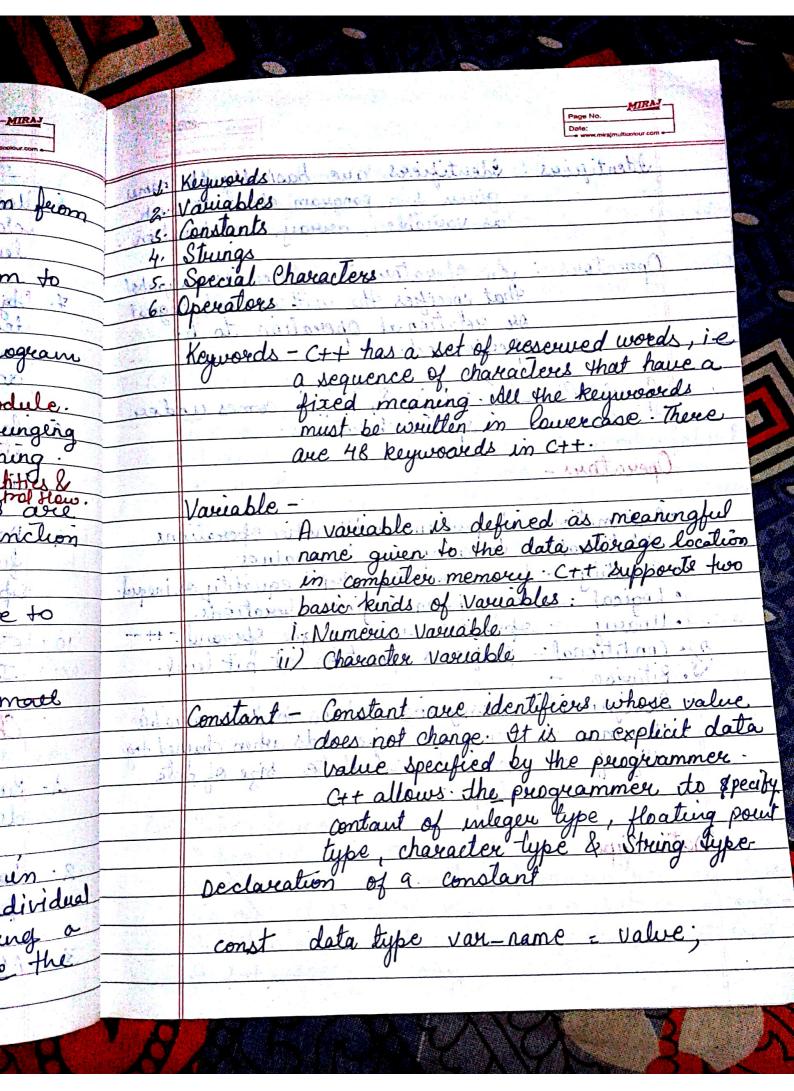
				Page No. Dato: www.minsjmultkoolour.com	
/		time due to reus	ablity of existing	ig modules.	
	1	it charing deline	and purious	busine	1
	0 1	LOALLO BUIGAGOMA (A data Couple	The state of the	
-		or accessed by a	ry coole outsid	a the class	
	11.1	or accessed by a due to the puinci	ole of data h	iding.	
	4	ainable bungan	Le raid promi	dandah	
No.	4.	Real would objects	in the problem	n olomain ca	2
		Real would objects be easily mapped	on objects un	she progra	
		Topic and a second second	1 1 1	1 1 2 1 000	ti
200	.ی	A puogram can be	e easily idula	co ino par	
	- 1	A puogram can be based on objects.		Carlo S	
	Q.Y.	Shound district	D. Ouver Exec	ah ahtive	2
	6.4	A data centered	design approa	lown that	on l
16		A data centered more details of be easily implem	a model in a	goon we	. 0
	bother	be easily implem	enled	the chiest	
	DAUD	P. Asigned	0000	au e expando	blo
	4.	Puograms designed	using cors	d learn Me	nall
		as they can be	easily upgrace	a gran	.2
	i La	cis they can be to large systems	Logo to Dillion	Maria Mill	
	o ento	Message bassing to interference into external system.	Thomas alm m	1 mobilies	the P
	8.	Message bassing t	retween object	tion with	1100
		interference inc	rface descrip	an win	. 11
	Rej S	external system	opto mago	dia vi missi	
	6	Software Complex	the methody.	eller Ingile	
	q.	Software Complex	ity becomes	easily mana	geable
			0	0	
	10	With polymouphism	2 behaviour	of function	8 1
	10.55	obour toes or ob	jects may va	my depend	ing
2	_#N(YMO)	the circum	stances	ug Alfania	0
-		With polymorphism operators, or ob upon the circum	I ditud dalo	athe straight	<u> </u>
		. 1 . 1 . 1	de la marcha de de	lation his	IRS
1	<u> </u>	Data abstraction	and encapsu	LO SALAND	3
	A. P			de la companya della companya de la companya della	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

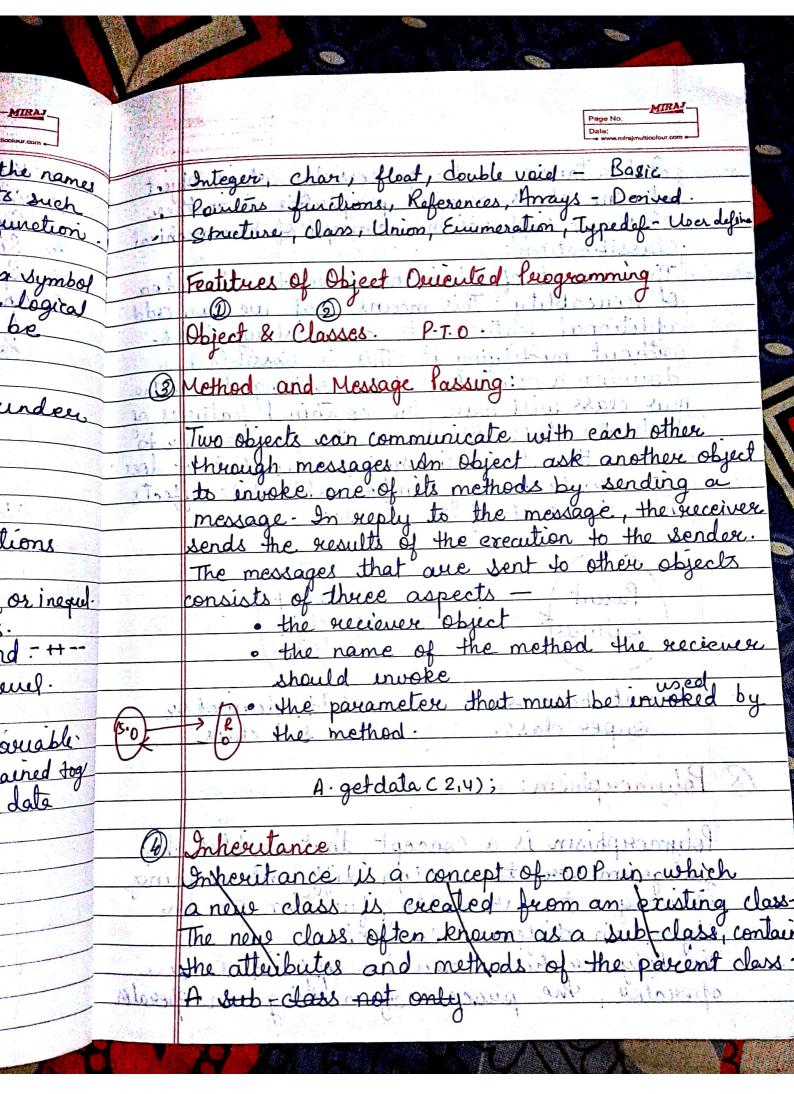
	MIRAJ
Page No.	
Date:	ulticulaur com •

194		www.mirajmulticulaur.com
n or	implementation details world and provides it interface	from the external
	unprementations accounts it	clearly defined
bid	vioter loc e	3 / Search 18160 6010
200	and colins about the	at Komason 43
12.	oof enables by preammer	is to write easily
	ool enables programmer extendable and maintain	nable program.
(Cu)	h in the crobben demain	ASIDE MANUELLE AND
. Mon	Companision between OOP	and FOR
vel3	be easily divice 900 to	taget in chin
₹.		aphasis is guen on govithors. & procedure.
8.3	Data:	and the grant
non 1	Real would is represented R	cal would is refresented
2	bu phiests minicking	logical entitles and
Alo	by objects minicking by external entities co	interest flows.
Mound	aceld educated licen in	SO LOSS GARAGE AND COM
3.	Allows modelling of real 7	ries to fit real life
	life publem into objects	vioblem into procedure.
the the	life publish into objects of with state and behaviour	8 Message bacang
	Myril variations 2015 2	राहर पर्वाचित्रकार्यकार्यकार्य
4.	Data is encapsulated 1	Data and procedure
N.Y	effectively by methods.	ve separale en a
रोक्टबर्ग	Spirou Gross Bureso Als	module moderni
~	Paragraph and palarella service P.	م ما المقال المامية
	·	regram modules are
1		nked through parameter
	Objects interest with	assing mechanism.
1	each other by message.	In rate abstraction
	passing.	

AND THE RESERVE			
B.A.			
			Page No.
room _		prise to the second	Date: www.mins/multiculcur.com
nal		\$4.5 mg 14.5	
Bod	60	Uses abstraction at	Uses abstraction at procedure
	The state of	class and object	levelant martand
-	1 1 2 km	level.	0
sily.	4-	la lumm one weem	S Frington transfer do
7. 0:	7.	Object Osciented	Algorithmic decomposition
-17		decomposition focuses	tends to focus on the sequence
	اعاش	on abstracted objects	of evention malaine.
		and their binteraction	the state of the s
-3,	0	have conintelligent	a wind sampe have whole in
	DQ 30	active and data son	Passive and dumb dala
On	0 0	stanting of encapeulator	structures used by acture
dure.	L. D. B.	all passive procedure	methods
	· commo	20 HILD LOADSACTOR	The party of the course of the
esented	0.1	Does such hout to Wellia	Doesnot Supposed Hatual function
and		function, polymorphism	polymosphism, operation
		Specator overloading	polymosphism, operation. Overloading rinheritance etc.
	110	L Burales and Lord	5 50 36 ATUDING 1 10 11
lele	10 .	Ex - C++, Small talk	Ex- C, cobol, Pascal etc.
olure.	ja	Java, Javascript.	
Q	34.		of the mediania and an
		Characteristics of P	rocedwal Programming
		proceeding of Leuch.	Light mades about a fragment a fragment
ne_	1	Puts much important	e on single thing to be
<u>a</u> _		done	
	7	in the second se	
		Landa buahleman	ue divided into smaller
ue -	2.	Navas propulsion	in timation and the
ameter-	doubh	purguams known a	or gundality and a
	-0 1	ニー・レフェイー そうたっと ないよくよう スプース・スタトキリー ブ	
	3.1	Most of the funct	ion shave global dala -
			Takens in cor
سللن			
	2.50 Pag		

1	- 4	www.mirajmulticolour.com
1		The second of th
	mulla;	Data moves openly around the system from function to function
· ·		Lunction to Lunction
1		101101
-	5.	Function transfer data from one form to
1	MAI	another of sin Hispolar
	The Property of the second	The state of the s
a	6.	En black Toba delem approaches
		deviantha.
	ਜ	Dater and procedure are separate in a module.
	7	In the cases of large programs bringing change is difficult and time consuming.
		Week would in heppeneured by loaical Chilities &
	8.	Sopropriate and effective techniques are
E.	and an	Appropriate and effective techniques are unavailable to secure data of a function
		s ferome others and a minister of martinish a
	رو واد ا	the series environding buckeralbur, interior
		POP contains sleps by sleps procedure to
	1000	executer and the limit to a state
	10 :	The publisher act does not by the second
		The puoblem get decomposed into small
1	44	Uses abstruction at procedural level.
V-1,	ر هر ا	2. Put much simbordance on single thing the
		Token in C++
Pa-s		
0	1. Fr	Tokens are the basic building block in
1		Ct + language. It is the smallest individual
-		ct + language It is the smallest individual unit, the purguan is constructed using a combination of tokens following and the tokens in ctt
	* 1	combination of lokens following are the
		lokens in Ctt





Inheritance is the process by which object of one class acquire properties of another class. It supports the concept of hierarchical classification.

The concept of inheritance priorides the idea of reusability. This means that we can add additional features to an existing class without modifying it. This is possible by deriving a new class from cristing class. The new class will have the combined features of both the class. It allows the programmer to tailou the class in such a way that it does not introduce any undesirable side effects into the rest of the classes.

features)

Parent + Child feature

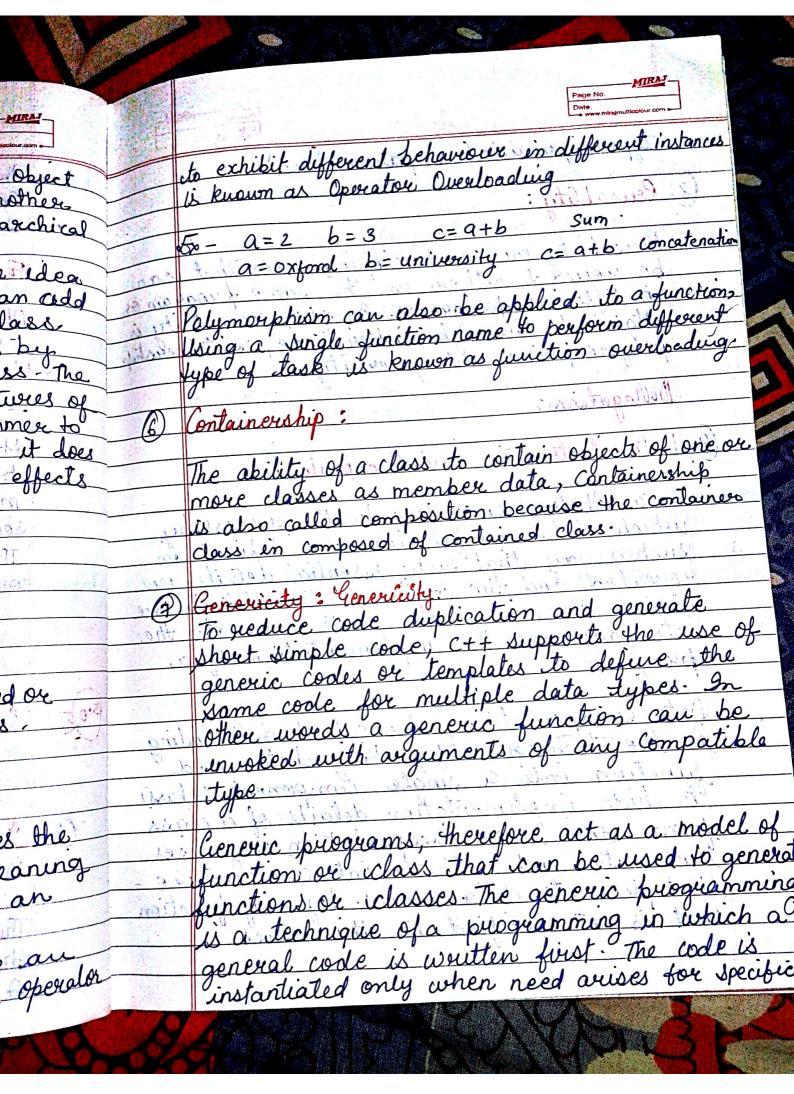
Parent, base or Super class.

child, described or

8 Polymorphism: 2003 2 dablages

Polymorphism is a concept that enables the programmer to assign different meaning or usage to a variable function or an object in different context.

The Polymorphism can be applied to an operator, the process of making can operator



Types (provided as parameters)

(8) Reusablity:

Reusablity means developing codes that can be reused either in the same program or in different programs. In C++, reusablity is attained through inheritance, containership polymorphism and genericity.

Obblagation:

9 Data Abstraction and Encapsulation

Data Abstraction refers to the process by which data and function are defined in such a way that only essential details are revealed and the implementation details are hidden. Its main focus is to separate the interface and the implementation of a program.

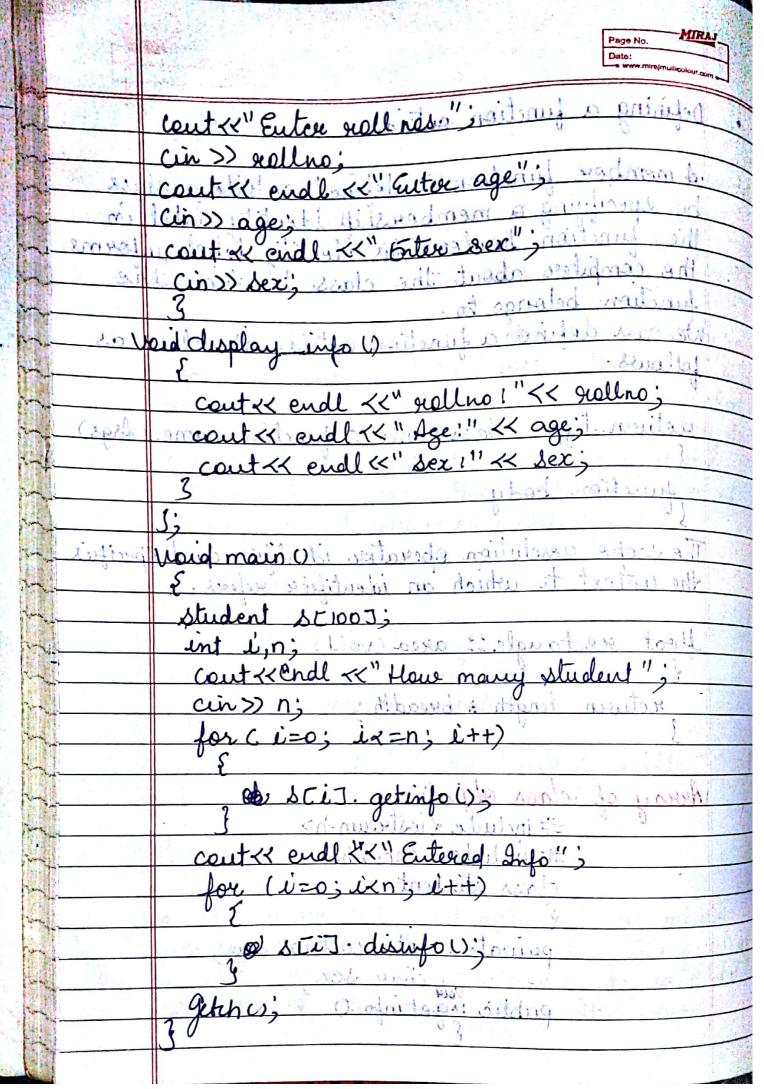
Data encapsulation, also called data hiding is the Technique of packing data and function into a single component (class) to hide implementation details of a class from the user Encapsulation organises the data and methods into a structure that prevents data access by any function that is not specified in the class.

		MIRA	
RAJ		Binding in foat Date: Gnittockur.com	
.com		Add Dynamic landing there access level	
	- 2	Add Dynamic Binding in features measurement of the data variables and member functions.	
		the data variable in the second by	
	10.	lavel level data protection, accessed of	
can	9.	lawel devel data protection, accessed by any function belonging to any class.	
year or	10,10	protected access level, accessed by that class	
lety is inereship	tala	protected access level, accessed by that class on by any class that is inherited from it.	1
- while	AULIV	· highest level of data protection, accessed by the class in which it is declared.	
		· highest level of dair produced.	
	2000 di	the class in writer	
		Type Conversion (1807)	No.
		Type Conversion of variable refers to changing a variable of one data type into another of some data type into another of some when the expression has variables of some when the expression of types. To evaluate the expression	The second second
by,		Type Conversion of Variation type into another of	
l un		a variable of the expression has variables of	April 1
s are	Palusa !	different data types To evaluate the expression the data type is promoted from lower to the chickwarchy of data types higher level where hickwarchy of data types higher level where hickwarchy of data types higher level where hickwarchy of data types	
ils are	Alkendo.	the data type is promoted from lower tubes	
te the	120	higher level where double Usat, long, int	The second
f a		higher level where double, float, long, int	
	the	short and course to discount is smith	855
hiding	diam	float x;	_
nd	n.1.	Extended; and the country = 300 porting	
celass).	001	i=k	
class	•	Lype Hot type	75.1 A
neses	N	denoting.	
1,146		dem.	
function			
			Welley,

		ORN-
Page	No.	
Date	: Ww.mirajmulticol	our.com

hich an amed
an
omed
<u> </u>
· · · · · · · · · · · · · · · · · · ·

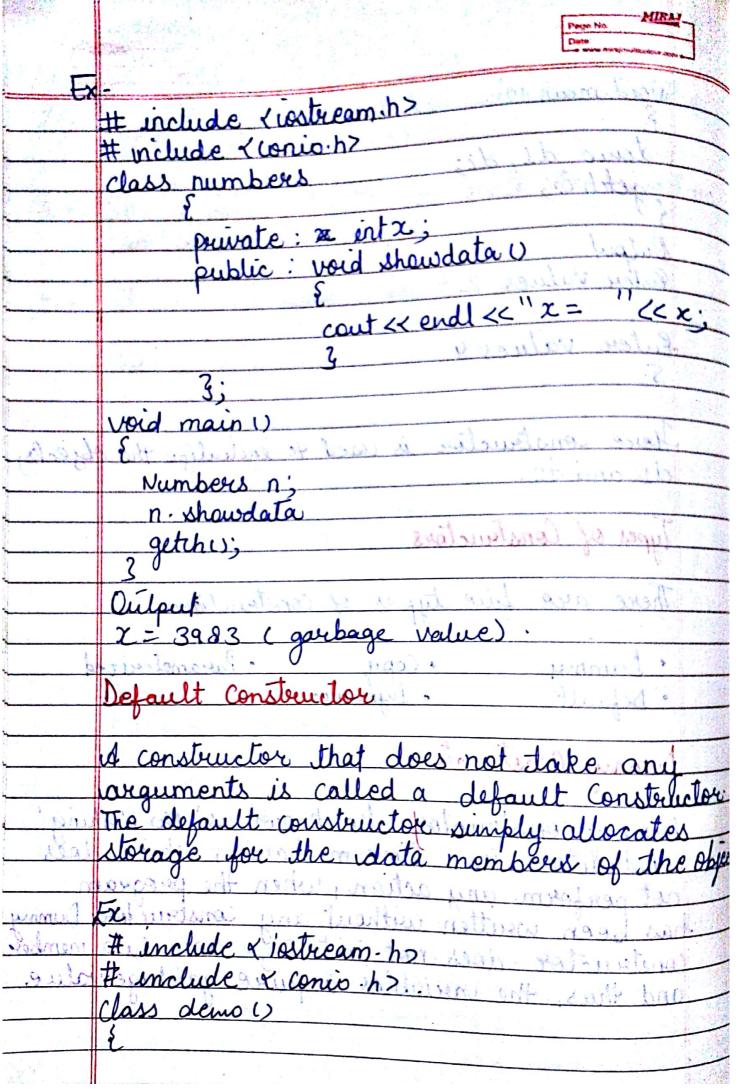
THE RESERVE TO THE PERSON OF T		
• 0	efining a function outside	3 "SS Lucio"
	anily	OH THE STATE OF
	4 member function is defined ou	itside a class
	ou specifying a membership iden	titu label in
C. 18	the function header. This identity	label informs
	by specifying a membership identity the function header. This identity the class to	which the
	function belongs to.	
	Le con défine a function outside	the class as
O AYC	follows.	Japan 13 May 1
	cendle Ke" nother 1" << nother :	Sylvidor
10-11	return-type class name: funct	
12.70	A could be the second to the second	Stuas
	function body	3
		() harden
	The scape persolution operator identifier	fies and specifies
	the context to which an identifier	refers.
4.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lashuli, Markett
	float rectangle: area (void)	nd Int
	Chall of stank around division is	>> too)
- 19 -	return length * breadth;	Cars ale
	J. Comment of the later than the lat	Part Age and
		40
	through class objects the include & wateram h>	100
	# include & conio h?	
	class student	
	S Sugara	
	private: int rollno	age'
	burner . Then yex.	,
	public : * get info ()	2600°
	S Jan	01

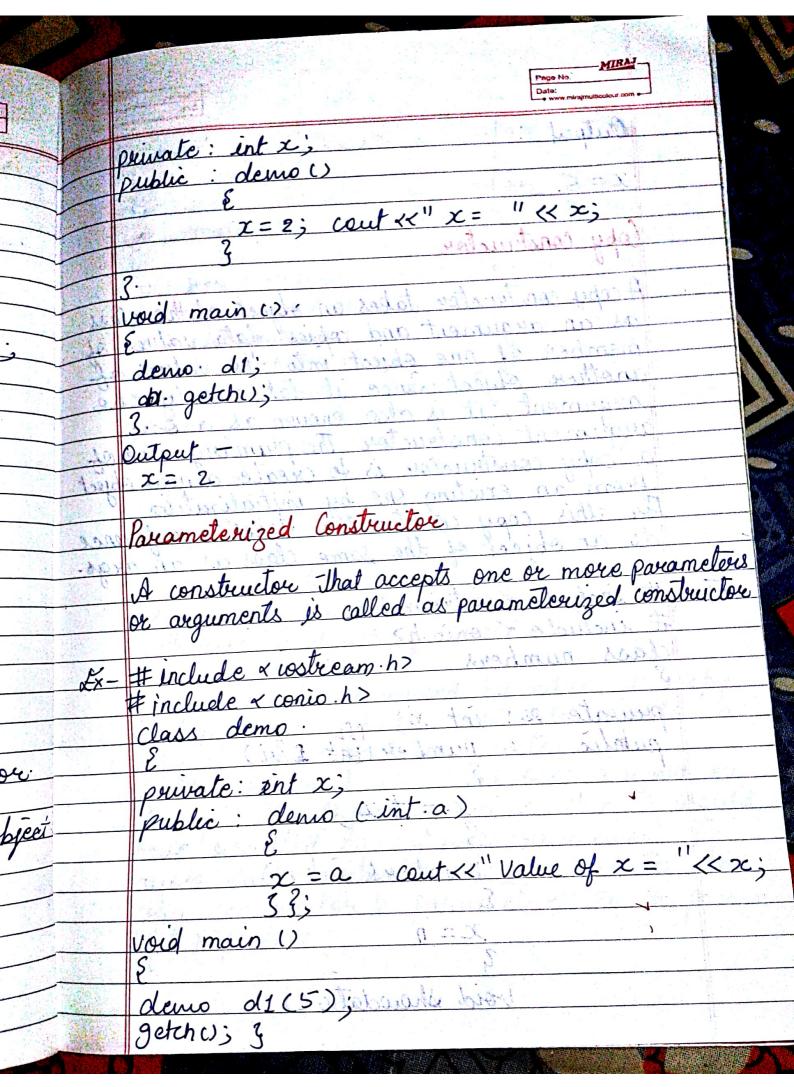




		www.mirajmutikokour.com
	7.	A construction can not be declared as static volatile or const
		Tholatile or soul
	2 .	Like a normal function a construction function can also be overloaded.
	D	tile a normal function a comment
		Can also be overloaded
	9.	It can also have default arguments.
	400	regulard undmare datisate of M. Pationing of the
	- 3. N	Syntaxe - in information of marries again
	- 3PP	situiting of trands and a nation of and a
1-	100	classing class name to souling and transform
		shire!
-		private:
4	as that	Oubline class name Dit & sinch and
1-1		It be the which it belongs.
		1
	- with	To had construction must be coloned in which
		maitre
		xample.
	0	#include riostream.h>
	- Total 1	# include & conio h > maller 1
		class demo bites 2000 pla inite
		Class acris
	A W	- vier private : value con valoudino H & H
	thenological	
	. Alloss in	such publice: demo-() in the resulting uno
-	<u> </u>	int a,b;
**	ilual	
-		Contex "Enter Values";
6	A	in down ton (aho) >> b; how in
		33; palmino
No. of		

	Page No. Date:
	→ vvvv.mirnjmulticalour.com
	Void main OF School Star Star Star Star Star
	Francis Silveris abulin F
	denso d1, d2;
	getch ();
	Star M. almina
	Output Oslahuals birt silding
	Enter values 2
	3 = 3 >> Love >> 100
	Enter values 4
	5.
	11
	Here constructor is used to initialize the objects;
	of and 92.
	Types of Constructors
	types of constructors
	There are five types of constructions
	Leading and armin sales a territorial
	· Dummy · Copy · Parameterized · Default · Dynamic
	· Default · Dynamic · Parameterized
	Dunny Constructor
is.	Williams Through to bella at anamisman
	Durning constructor also known as Do Nothing
Abjec	constructore is a time mechanism which does
	not perform any action, when the program
	has been written without any constructore Dummy
	constructor does not initiatize any data member and thus, the variables acquire garbage value
	and thus, the variables acquire garbage value
	Charles Stand

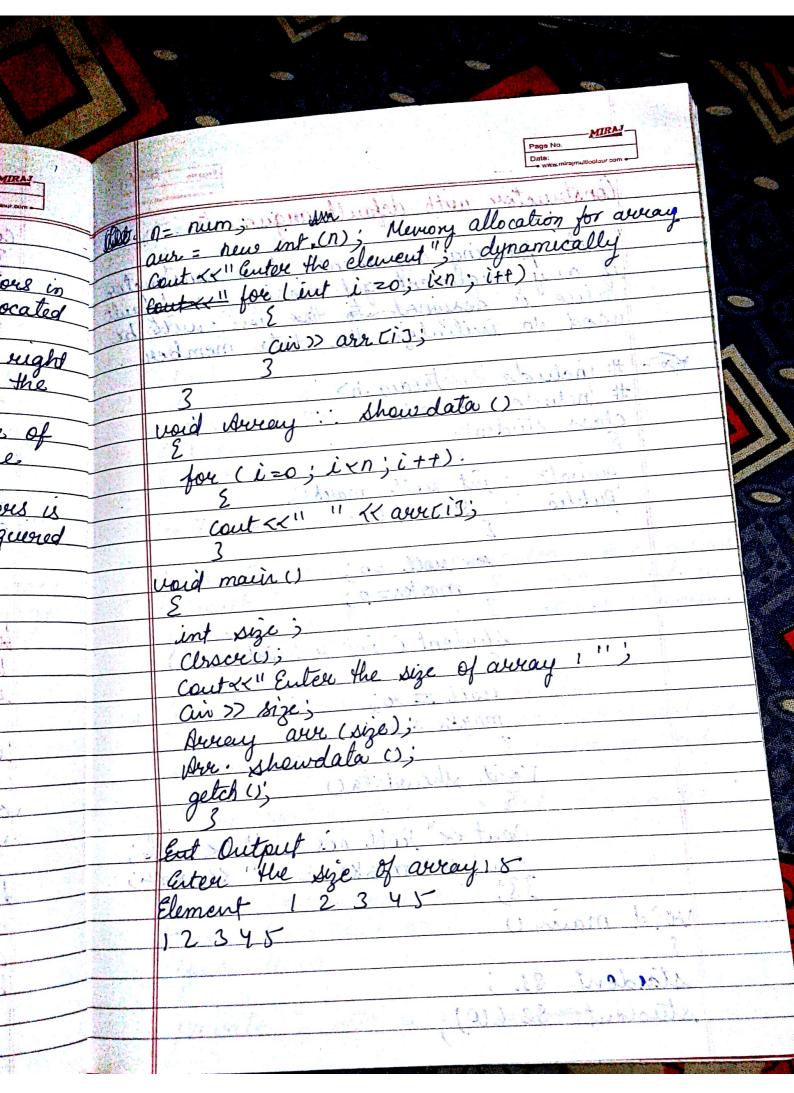




	Page No. Date: www.mkrajmutticolour.com
	Output:
	x = 5.
	Z=2: Cout x " z = " x x;
	Copy constructor
	A copy constructor takes an object of the class
	A copy constructor takes an object of the class as an argument and copies data values of
U	member of one object into the values of another object. Since it takes only one argument, it is also known as a one.
	argument, it is also known as a one-
	a copy constructor is to create a new object
	from an existing one by initialization. For this copy constructor takes a reference
	to an object of the same class as an args.
1286 2 11 20 EV 20	
	# include < conio h>
	Class numbers (d. magadosu x a harring the -xt
	private &: int x;
	putalic: number (Int [&i)
	x = t.2
	numbers int n)
	E E
	$\frac{x=n}{3} \qquad () \text{ away bign}$
	word shoundato a

	at a second	Date: www.mirajmulticolour.com
	cont K " x = " < x 30 10 million	N1 x = 20 -
	3	
291. Arty	Binton and her various	N2 X=i.x
100	The state of the s	2=20.
	8	N3 = x = 20.
1000	Number NI (20);	2 xaldning to
A CONTRACT	Number N2 (NI);	r la Invamo
	N2. showdata U;	Which traide
do	Number N3 = N13	The Boren
Comp.	N3 Showdata ();	Image of the
	getchcs'	is organized
13	alterated to the data manaces	The menion
toby	Output and in bond I'll and	in haseafour
	x=120 to the man trained and	naku bun
	2220.	1 1 1
	() () () () () () () () () ()	N 1 - 4-12/
10 To 10	why do we take continue to	. 1
	The state of the s	e objects by
	reference and not by value	numb for
	when an object is bassed by	value, the copy
	when an object is passed by constructor is implicitly called	to create a
	copy of the original argumen	rts.
\$	If the copy constructor had	been designed to
	accept the object by value	e, then it would
	have resulted in infinite	
	avoid such a situation, C++	- marchates the
	copy constructor 's paramel	ers to be passed
100	by reference.	
	from fry hay,	The franchist of the second

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	www.mirajmuiticolour.com
	Dynamic Constructor
**	TOTAL CONTRACTOR
	Dynamic constructor are those constructors in which memory for data members is allocated dunamically.
	which memory for data members is allocated
	dunamically
j	dynamically. If enables the puogram to allocate the right amount of memory to data members of the shiest during execution
	amount of memory to data members of the
	Object during execution
L	This is even more beneficial when the size of
	data members is not same each time the
	historiam is executed:
	The manage allocated to the data members is
	released when the object is no longer, required and when the object goes out of scope.
<u> </u>	and when the object goes out of scope.
	O S S S MORE
Ex.	# include xiostream. h>-
	# include vionio h>
	class averaged samuelmen upp of while
, i	Gelfa acce, and not by value?
	punato: int * ove;
d yda	when an expect is possed the value the
ميال	topublicit: barray Onion is realment
	vrapu of the original anguments.
<u> </u>	At the repy rendlemeter os ocen designed
-conta	ancent the Espect on with them it a
0.	· araisassaway (minta)
1 COMO	situation usid showdater ()
105/48	Copy constantion is passing Eleves to be !
	desail - · Alland 1 · b
	skray: Array (int rum)



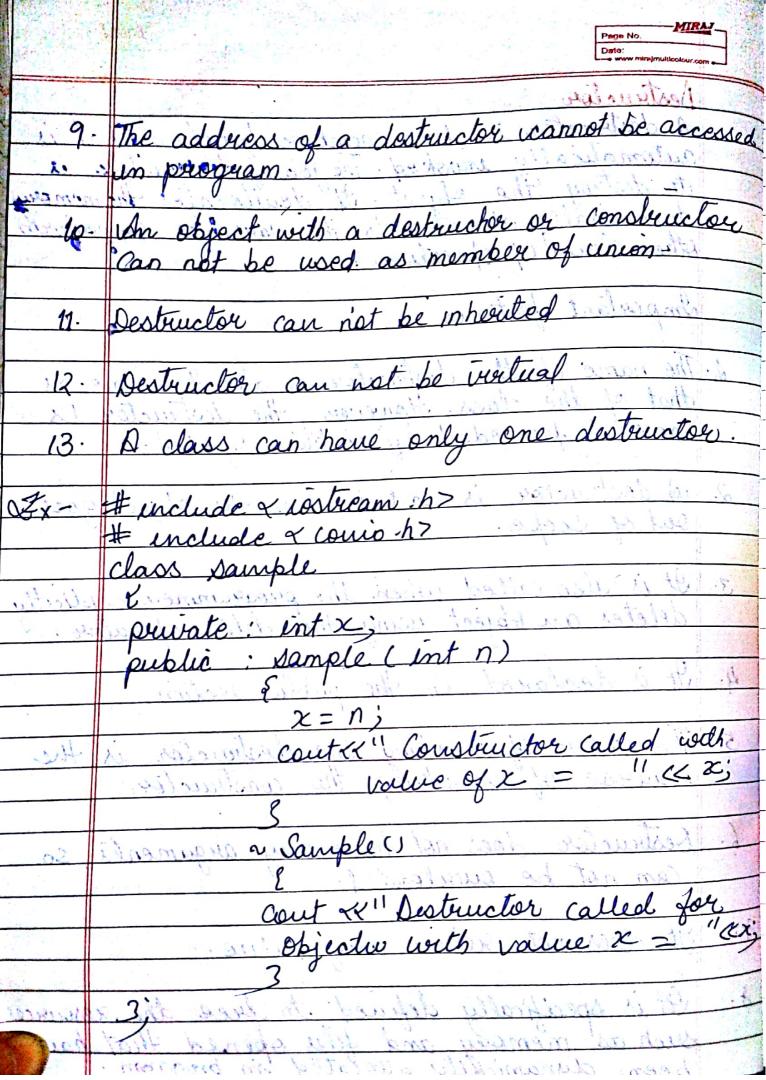
student 53 (10,20) St. Shoudata (); Se shoundate co; S3: Showdata (5) or getch 0'5 Output -Rollnos = 0 menas = 0. marks = 0 -Koll NO = 10 Roll No = 10 marles 2 ro Constructor Overloading Constructor can also be overloaded, when a class has multiple constructors, they are called as overloaded constructors. Some features of overloaded constructors are 1. They have the same name as the class.
2. Querloaded constructor differ in their signature with respect to the no. and sequence of args. When an object of class is created, the specific constructor is called. # include & iostream.h> # include < Conio.h> class demo puivate inte 9, b, sumo,

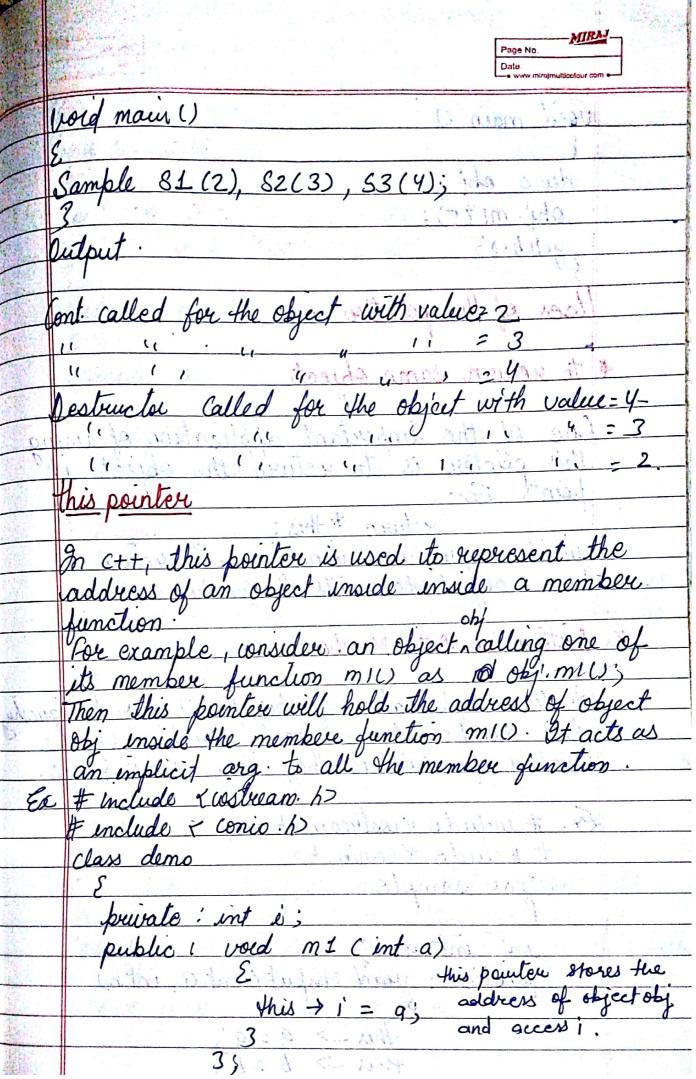
A SECTION AND PROPERTY.		
	Page No.	
	Date:	
	Public: demo (int p. int q)	
	S State and Stat	
	$\alpha = \rho$; $\beta = \beta $	
	h = 0 ;	
	3 - 4)	191
	demo (int o)	
	3	
	a = 0;	
	h = 0'	
<u></u>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	void show data	,
	S SULLO DESCO S	
	cont x " sum = " (x a+b;	
	2	
	2)	0
O. (Vess)	1 3 Ab 3 5 1 M 1 A B B B B B B B B B B B B B B B B B B	
1 W 101	Man Soll Date College	
1 has 1903	told main Oak the lines with the state of the	
	demo d1(2), d2(3,4);	
	d1 Showdata; getch(s)	1
dosce	de Showdata;	
344:	1 getch (s)	E
	30	
200	Intput . Who is a company of the	
	Sum = 4	384
	Sum = 7	6
The state of the s		
	State of the second state of the second	
	SA COLUMN TO THE SAME OF THE S	7
#	The state of the s	
		18
	the state of the s	

	Page No. Date: www.mirsjmulticolour.com
	Destructor
	a destructor is also a member denotion that
1 3445	automatically invoked The job of destructor is
	to destroy The object It deallocates the memory
D	automatically invoked The job of destructor is to destroy the object It deallocates the memory dynamically allocated to the variables or perform other clean up operation
	other clean up operation
8	
	Important features
1	The name of the destructor is also the same as that of the class. However, the destructor is name is preceded by ~ tilde symbol.
	that of the class. However, the destructor is
	name is breceded by ~ tilde symbol.
2.	A destructor is called when the object goes
4	A destructor is called when the object goes out of scope.
3	It is also called when the programmer explicitly deletes an object using the delete operator.
	deletes an object using the delete operator.
4.	It is declared in the public section
5	The order of invoking the destructor is the
1.	The order of invoking the destructor is the neverse of invoking the constructor.
	+

Destructor does not have any arguments, so

Scanned by CamScanner

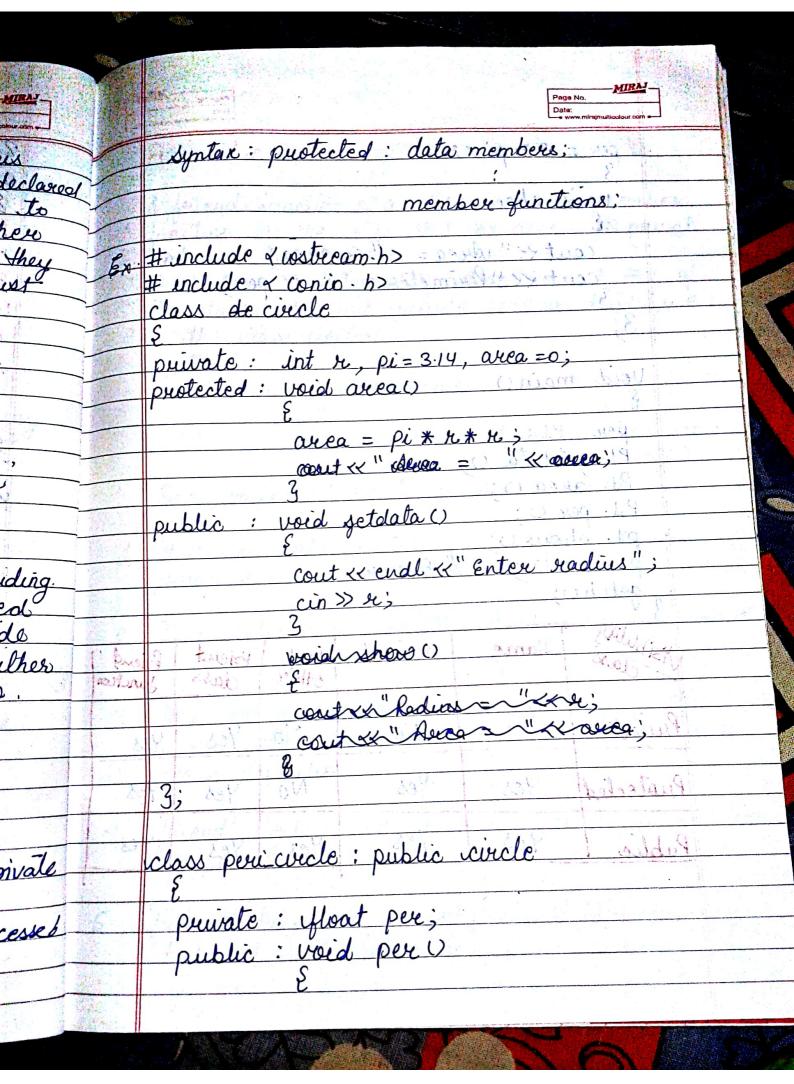




	Page No.
	Date: www.mimimutticolour.com
	void mais ()
	1
	demo obj ;
	obj. m1 (5);
	getchus
	Uses of this pointer
4	to return same object
<u> </u>	at the industrat application of using
<u> </u>	One of the important application of using this pointer is to return the object it
7	points Ex-
	* * * * * * * * * * * * * * * * * * * *
	unside a member function will return the Same object that calls the function
beu.	Same object that calls the function
\ K	Distinguish Data Members
4000	another application of this pointer is distinguishing
15 00	data members from local variables of the
	Another application of this pointer is distinguished data members from local variables of the member function if they have same name.
	Ex. # include x costream-h>
	# include & conip. h>
	Class sample
4	S in the stand when
	und intagib; in home sales
1 the	publicate void input (int a, int b)
ide be	D) 1, 1011A
	this -> a = a;
	11 this -> h 2 h

Bit with girls faland promote the exilting void output () = " « cout « " a = " « cout!; cout K"b = 4KbKendl; 33; and many was the 12 appropriate the thorn sample x 7. input (5,8) x output (); getch U; A class sample is created in the program with data members a and b and member function input () and output () Input () function secewel two integers parameters a and b which are of same name as data member of class sample. when input () is called the data of object inside it is represented as -> this -> a andthis -> while the local members variables of function is simply supresented as a and b. Access Specificus C++ support the principle of data hiding. The access restriction to a iclass member is specified by access specifiers. These are used to set boundaries for availability of member. There are three specifiers.

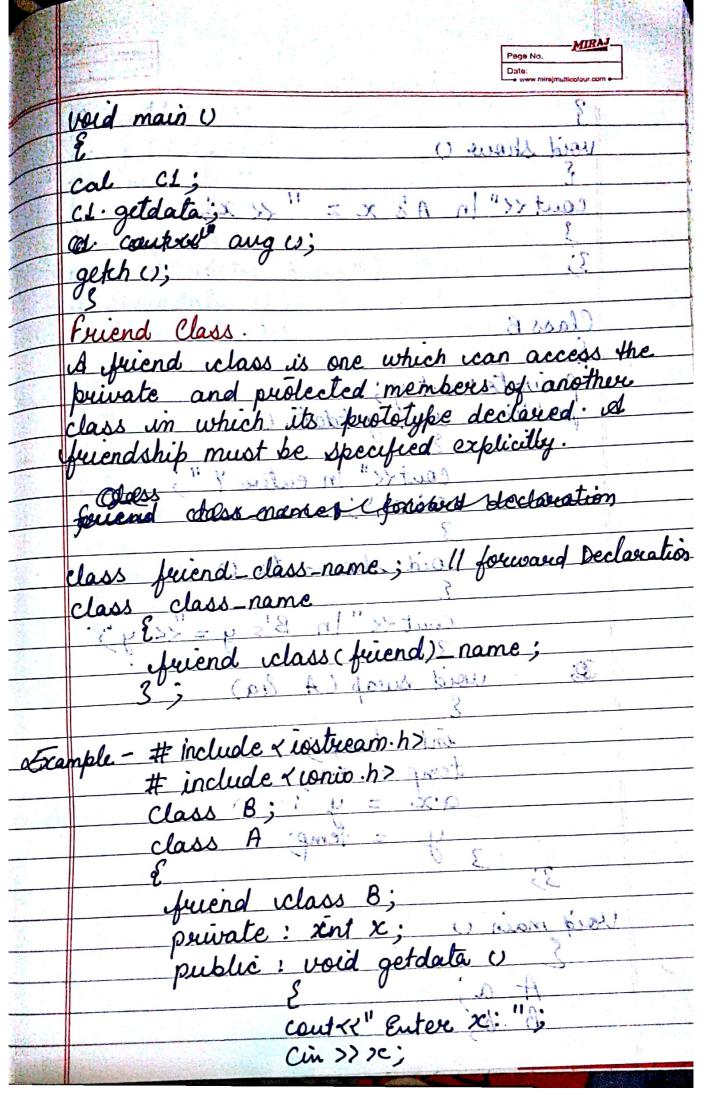
50 800 11	THAT ADDA. I.
	under label public will be available to
	everyone i e il public will be available to
	classes too They can be accessed by only
1-	might act ab here one districts they
	of he de change. So the key memoers vives
1 N N	everyone i.e. they can be accessed by other classes too. Therefore there are chances they might get change. So the key members must not be declared public.
	Contact of the same
	Syntax: class-name:
,	a 11: data members
	E public: data members;
	member functions,
	I a color wantile is lastoper in the heart water to
Photo V	and Indian Birm I have a southwarm whole a
	The state of the s
•	The state of the s
4	Il a man hour light with the decidence
	under brunte can not be accessed ourse
1	I May along in high the or lated the
1000	it can be accessed by other classes too.
	a conjunte same as a manage of a manage of
	Syntax: 1 data members;
	struct bourses.
	member function;
	String of the punciple of tale hiding.
9.11	buotected: It is somewhere similar to private
N. A.	but it makes class member inaccessible
102011	outside the walnus But they can be access
11.00	by any sub class of that class.
	of any one



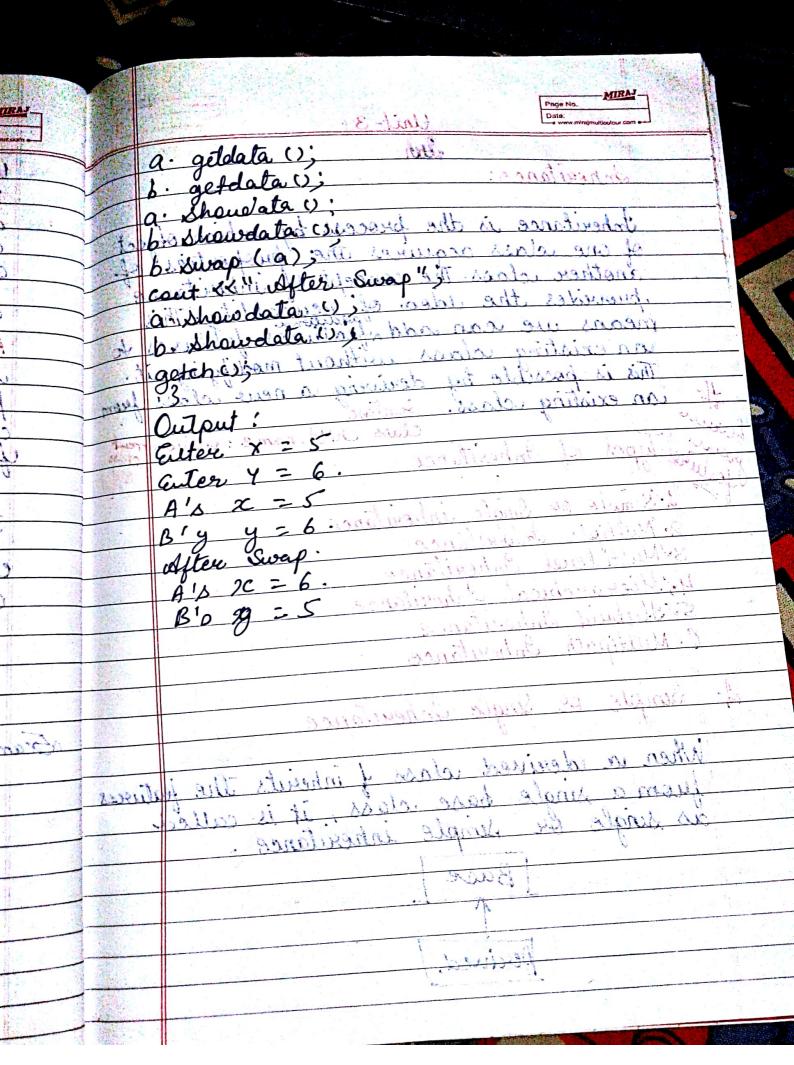
	and the					
						A STORY
		and of the			Page No. Date:	uttlectour.com
	And the second		A. L. A. Maril	Tour S.		
14	per =	2 * pix	r 3)	13 30-32-		
	Mari	& show a	A Dodnier C			
	1	1			Hillian in	Al partie
	co	ut xx " Du	rea = "1<	area;	<u>Montons</u>	
 	Cou	it xx " Per	umetero =	MA XX	Desc,	
	3:	The state of the s		J. FILME	ats has	2101
7	# J)	n- navion	VI.8 = 10" or	de trik	· Ami	un les
	void 1	main ()	aleat	time!	: boltootu	wa
	\$.1	ign -	· , 3		
	per	P1 ; 2 4 *.	1 = pi x K	13 40		1300
5 1	P1. ge	tdata ();	** AND " Y	7 () () () () () ()	7 2 7 8 1 2 4 8 7	
	P1. 01	uea U;		1, -		
		row U;	() which	101211	HUO I	110
			1 Everer.	A section		
	getche			Contains	11 7 7 1 d	1-22
	1 V	J		· Marine	1	
1	Sibility	Same	Derived	Bry 1	Friend	Friend 1
P.	dan			other	class	function
	- Li	Yes:	dright house.	11/1/30		3
11	wate	5>100	No'	1, 100 No.	Yes	Yes
P.	iolected	Maria	V	123		
1,2	Lorected	Yes.	Yes	No	Yes	Yes
Pu	blic	Yes	402			
		THE STATE OF	1es	. Yes:	Yes	408
The state of the s	W. Klain		grand and the second	A Comment		
	i toris			alda.	Dunnie	
	W.		John P.		addia	
	N. THAT			3		
			Sole is Mining		- 12 W P 1- 1	37.02

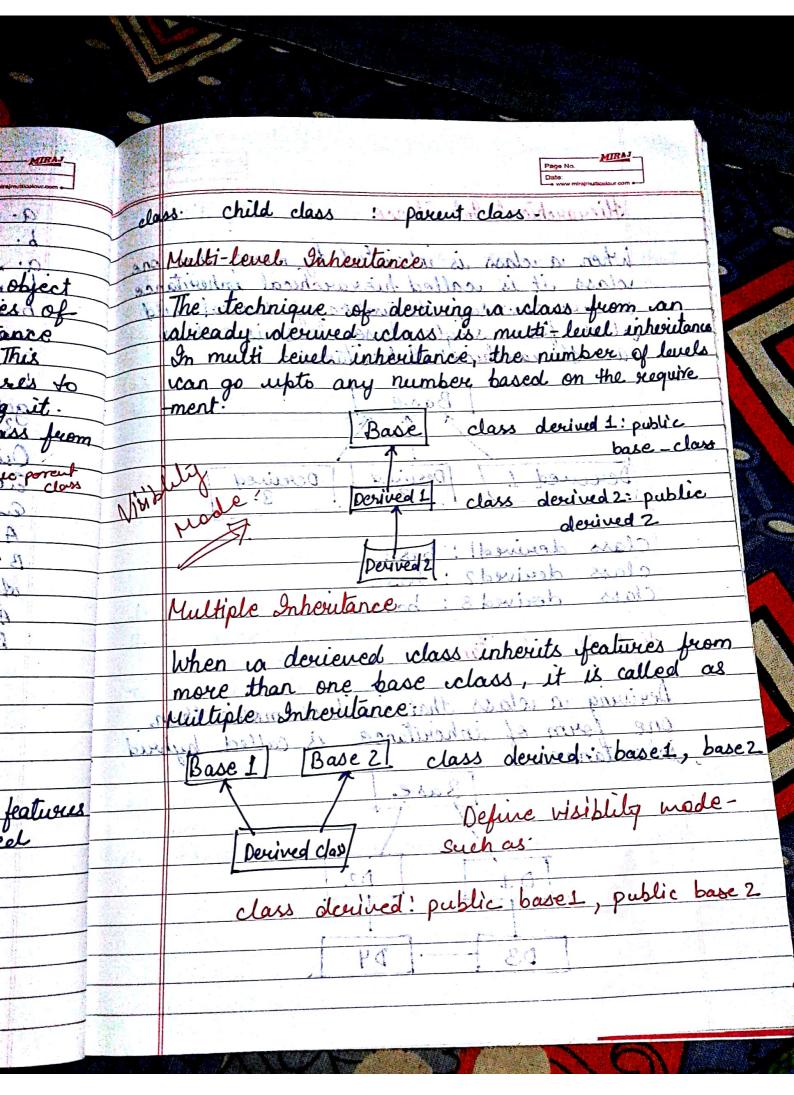
V.	MIRAJ
Paga No.	MAIN
Date:	nulticolout com
	- maradologican

	La bridge	Market and the state of the sta	
		fuend function do not require this pointer	F 7
			-
	6000	It can be member and friend of other clas	4
	Mount	thereword of the class that can access it of	9/3
200	Ex-	# include xiostream h> # include xionio h>	
		# include xionio h>	- 1
	Span		
	10	10,20,20,3 mass 3.1.	
		private: int a, b; public: void getdata	
		oublic: void getdata	
	amon	Cout XX" Enter two nos;	
	162	cin >> a >> b;	
		buend 3 at it stand hardens, small is	
		antisophoda: Haid aug ()	
	1 25	Let be present the area of the back of the	
		protected: void sun ()	
		of the state of th	
	tomes		
		sum = a+b;	
		3	153
	1	133 is instrument to parapropriate you to the way of 181.	
	i 400	supplied the probabilities in millioner	
		void aug ()	
-			
-	polide	a ifloat augid now mannestate branche	*
1		int sum = sum ();	
1		aug = sum 12;	100
,	7. O	Cout xx endl xx " Sum = 'Kx sum; Cout xx" endl xx " Ang = "xx ang;	d
		Cout XX" end XX "Aug = "XX aug;	
			7 6



		Hert main ()
	1,24	void show ()
4-		1 A A A A A A A A A A A A A A A A A A A
-		chille of x = " x x's about
		couter" n A's x = " x xisiabtro. 1)
	-	111 3 3 3 5
ij.		3;
		Pricend Class.
.		Class B and which was it can be brief in
4	the	it private muckayi; bataalang lane alanind
	وبر.	purale sange
-	10	publicas void get data contro me sacta publicas son tour distribusion contro son tour distribusion contro son tour y"
		" V vet of " V vet of the or of the
Ų.		Couter in euros
	T C	furend other mande it coins a declaration
		Sin to the Maint wall
	lanation	class being stab word; show forward be
		Sland class mane 3
		cout xx" n B's y = xx y"
		· luend class (hiend) Ename;
		20 void swap (A &a)
		3
		int detemplier it include of used mater 13 this
		temp = 1. aix; > abuloni to
		9:x = y 1:8 2221
		y = temp; A saws
4		2:
		Jurend wars 8;
		Void main U : X tox : storing
	4	public : void getdala o
		A a;
		:B" & vot & ">>two
		Cin >> 20;

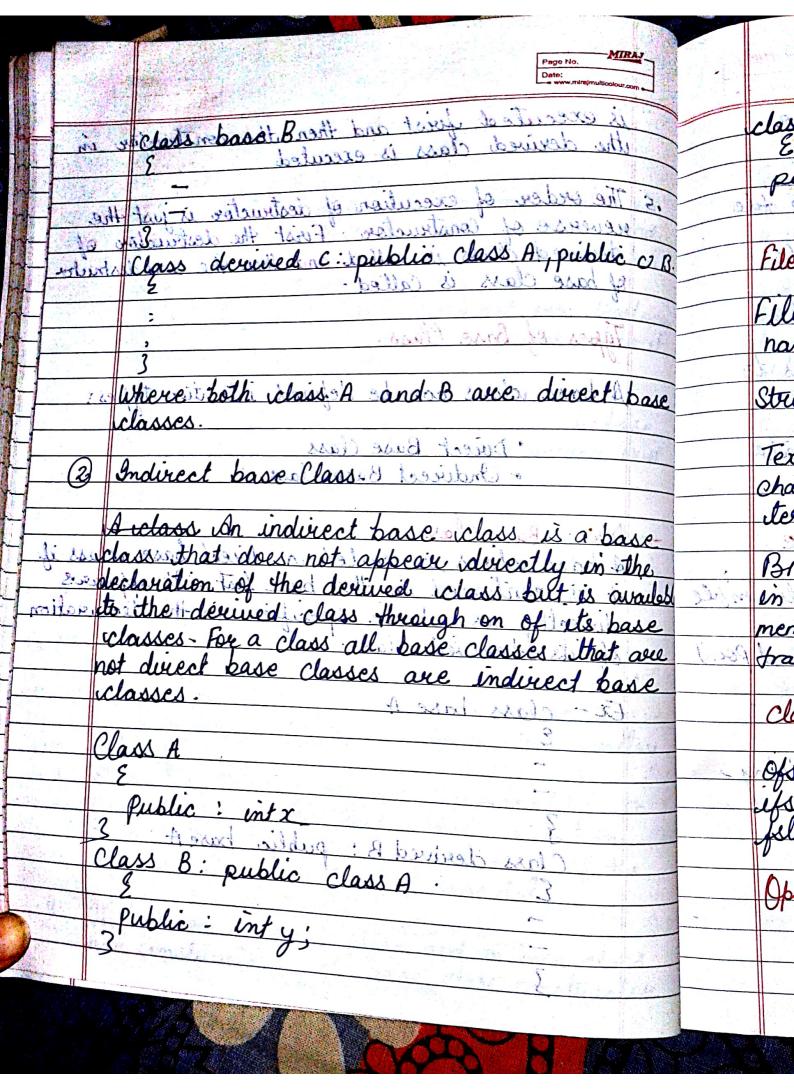


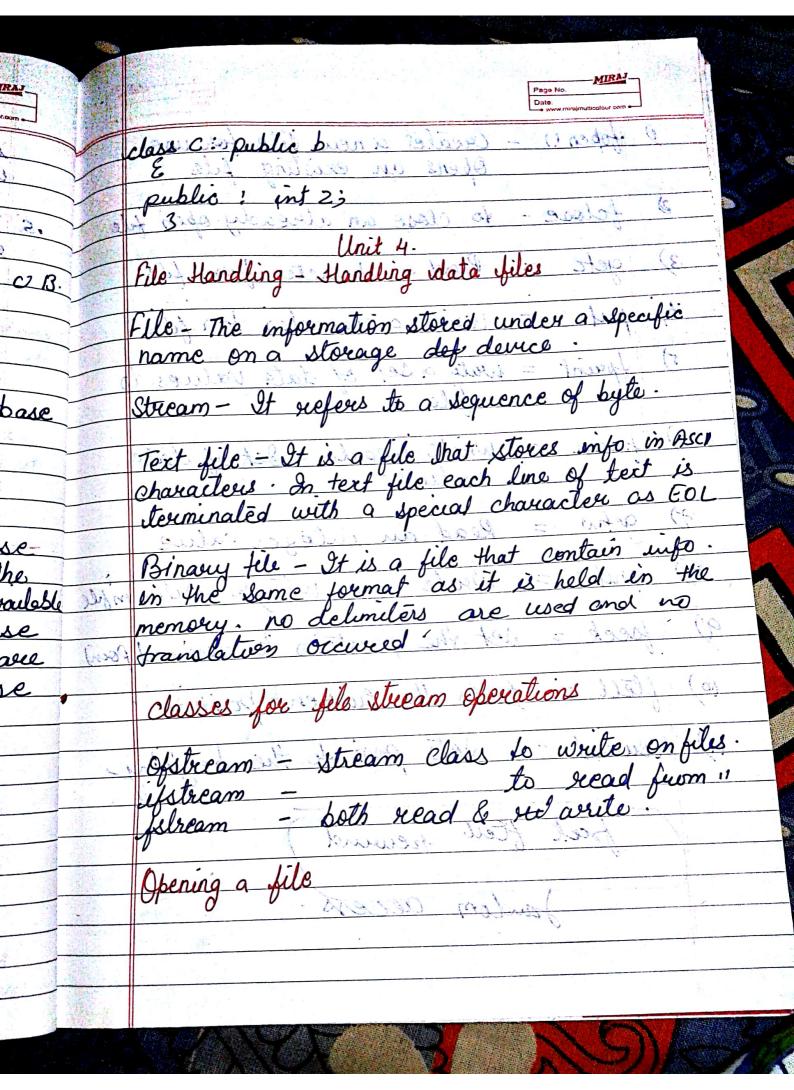


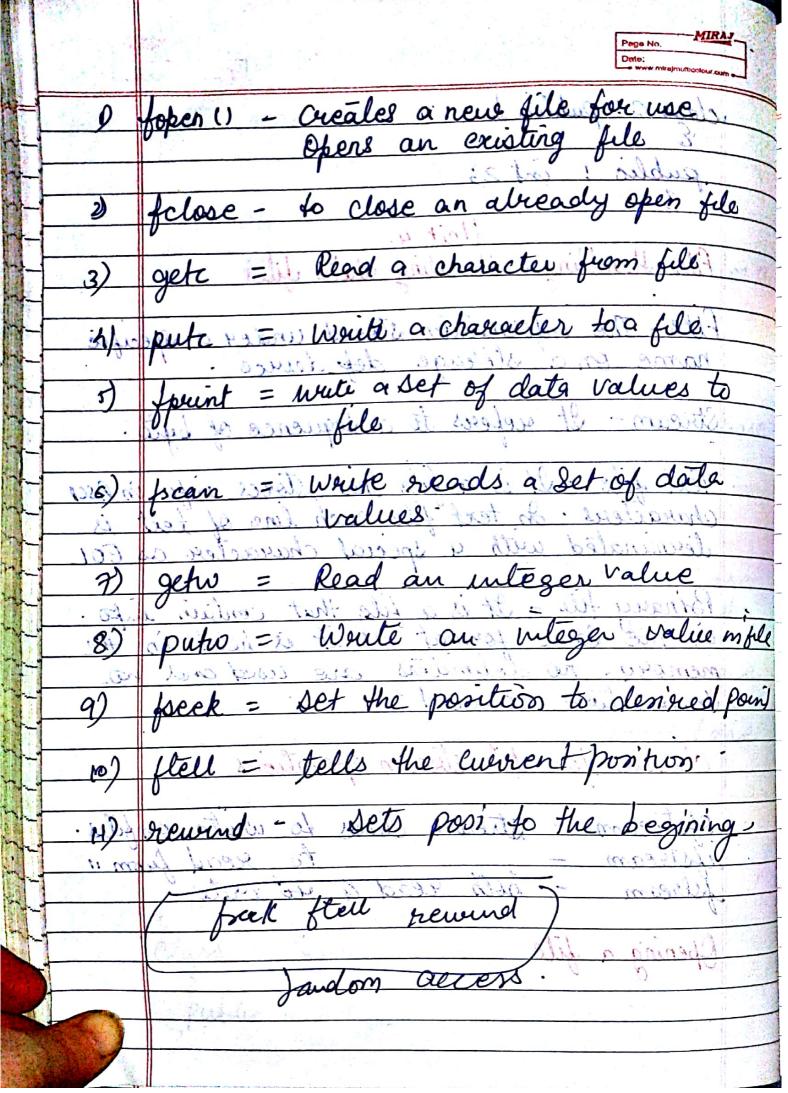
Hierarchical Inheritance . casts blins when a class is inherited by more than one is called hierarchical inheritance class from single base class is called as Slienarchical Inheritance Derived 3. Dervied 2 12 vines class derived! : base derived ? ! base derived 3: base mand flybrid Inheritance in Janaines s. Deriving a class that involves more than form of inheritance is called hybrid Base 03

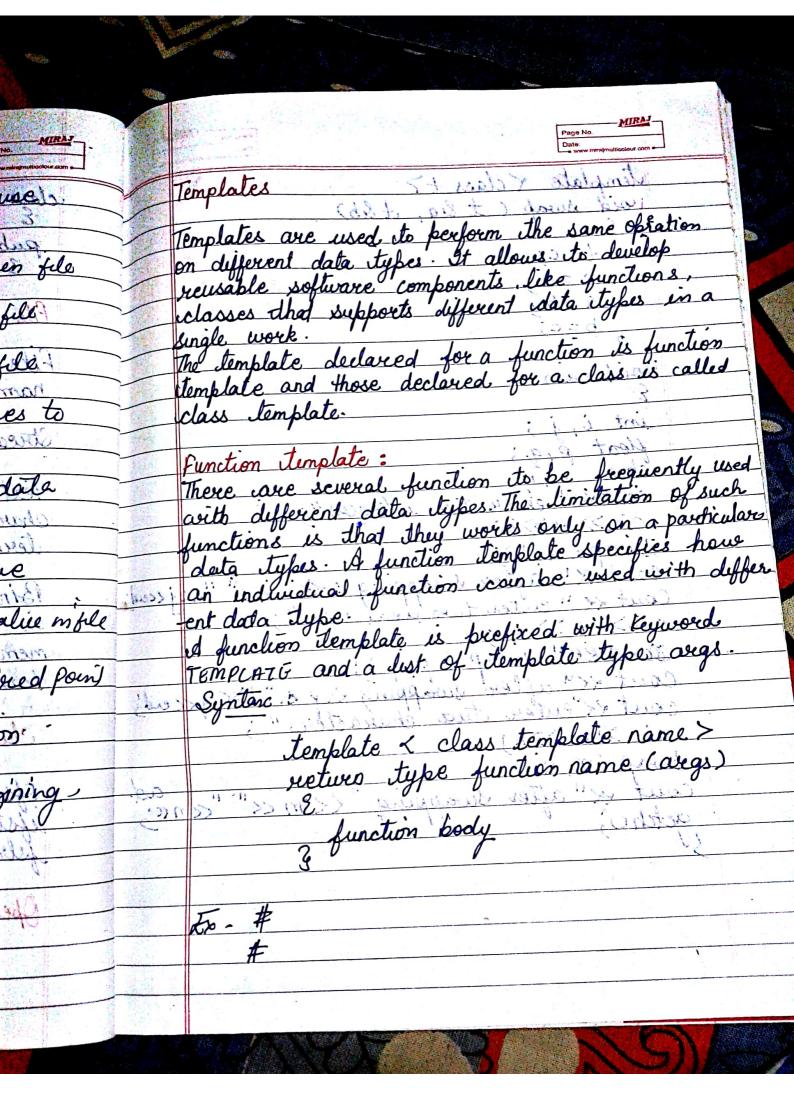
. 13 and hat General solven of welast slipeanies Eulopouts code extendibily and allow function position of the system. Pregressmes need to focus only new or addition .4 efforts and time spent on code maintenance. Reduced development cost and decreases the and pruisely Tested reliablity the cool of the los a south that wool . 1. Importance Soherlance of legan sectant Base 4.250 MEC. the mounted claus in called Aluth paths gahos in ayen In Musin desired from the dame base Deriving is class from other derived class, that Hulti-path Inheritance :etsQ Page No. MIRA

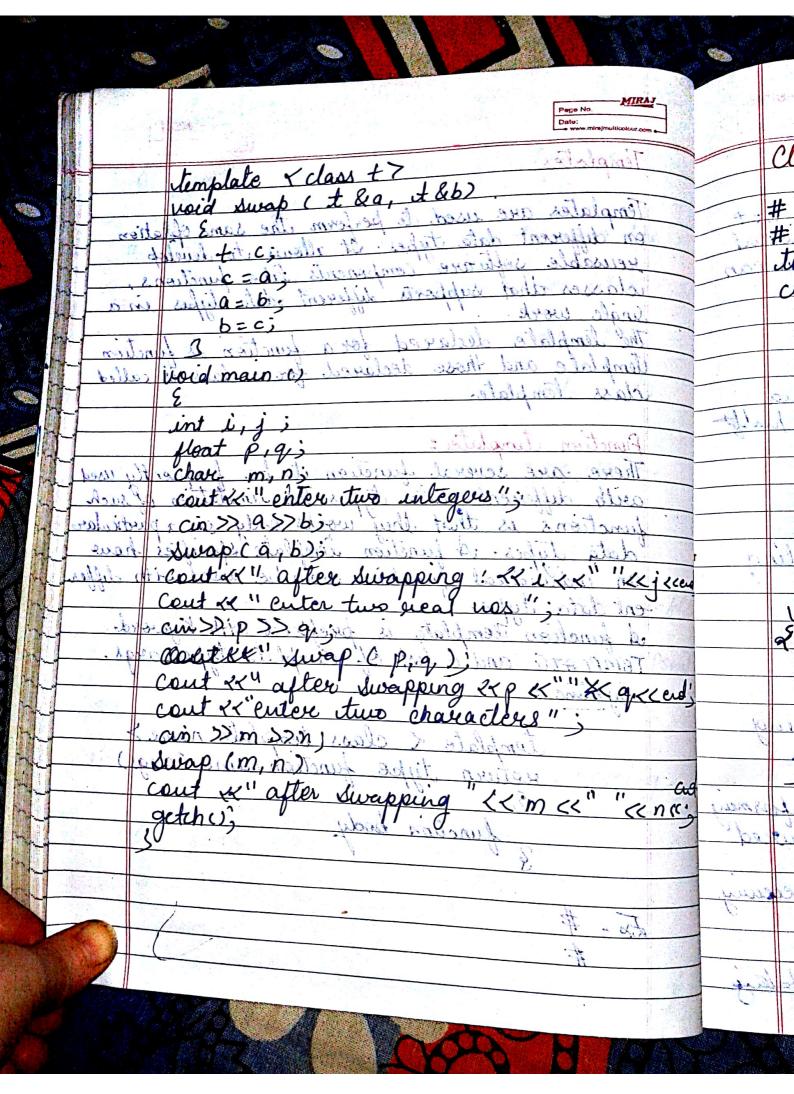
	- www.mirajinulticolour.com
	Constructor and Destructor in derived
	Alana
todt	Description of what deep whom Approved to
4.1	
1 2 2 1	initializing an object diving reveation and
	initializing an object diving creation and allocation of the required resources like
	man A
	while destructor are important for dealloca. Ting the resources from the object when it
	ting the resources from the object when it
1, 1	goes out of scope.
2.1	
	While having these manager functions in base
	and for derived classes, the programmer must
	While having these manager functions in base and for derived classes, the programmer must keep the following in mind:
	SOURCE A DEPOSITOR AND
• 1.	In the base class constructor does not take
· ·	any args, the derived class may not have
L 7	debugged and purising Tested code.
11.01	If the baseviclass has a constructor with:
- 5 a	one or move orgs, then the base derived
3 delist	class must have a constructor function.
11000	to pass the arig. to the base class constru
rotum	5. Supports code extensibilia and allow be
.3.	It is the derived class's responsibility to pass args to the base class or in the main () we will create objects only of the derived class or and not of base class.
بعديته	pass args to the base class cz in the
	main () we will create objects only of the
	derived class of and not of base class.
• 4	If both the derived class and in base class has constructors, the base class constructor
	has constructors, the base class constructor

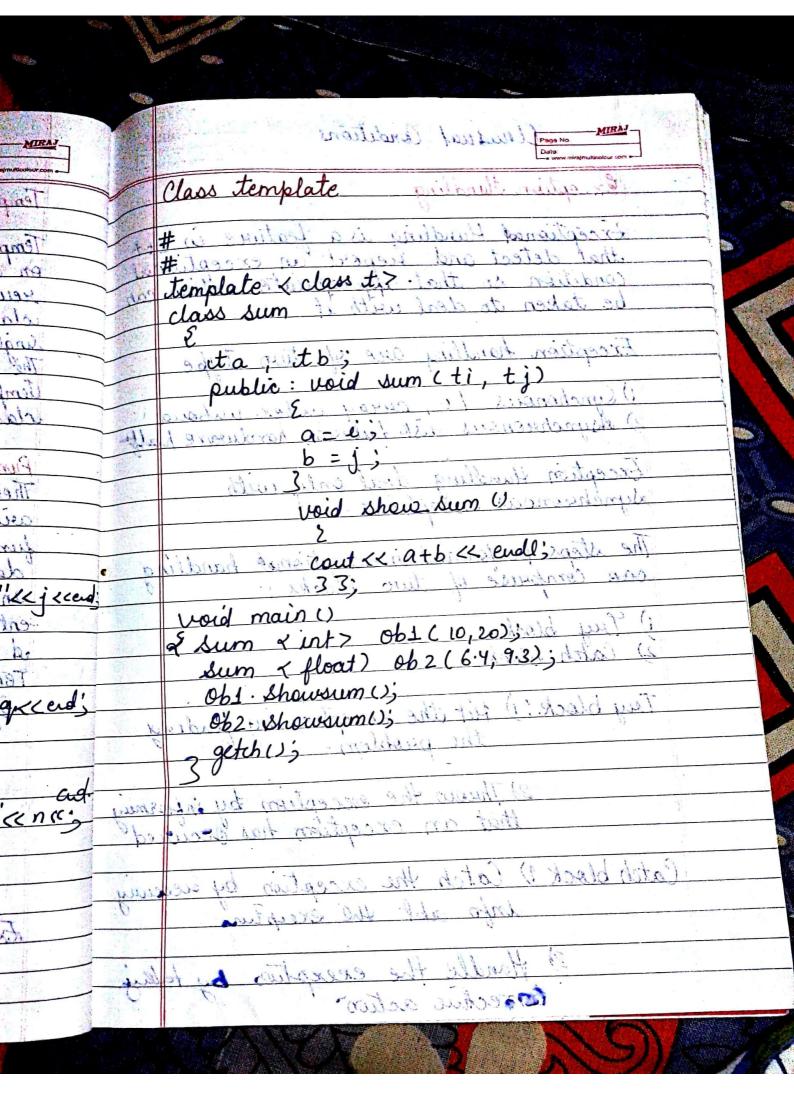












Unusual Conditions

Page No
Date:

www.mirajmulticolour.com

	Date: www.mirajmulticolour.com
	Exception Handling
	last use in
	Exceptioned Handling is a feature in c++ that detect and heport an exceptional condition so that appropriate action can be taken to deal with it
	that detect and report at exception of
	condition so that appropriate can
	be Jaken to deal www s
	True time handling are of two like
	Cit it muy bien : silding
	1) Conchangue 10, away under unboud
A	1) Cynchonous 10, away under unboud 2) Asynchronous disk failure, hordware half
	Exception Handling deal only with
	Exception Handling deal only with Synchronous exceptions.
1 1 10 10 10 10 10 10 10 10 10 10 10 10	The the state of the propertional handling
	The steps performed in exceptional handling can comprise of two blocks:
	Can Comprise of the Constant liver l
	1) Tuy block of all I took & much ? 2) Catch block a last trook & much ?
	2) Catch: block is 15 to Store & read
1.	Teny block!) Hit the exception by funding the publicm.
	the publicm.
-21-29	2) Thuow the exception by informing that an exception has occurred
123	
A-14	was an oxiginal,
10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
	Catch block 1) Catch the exception by necessing

corrective action

Scanned by CamScanner

	Page No. Date: www.mirajmuttoolour.com =
tays	Inline function
Throw exception;	When an intens 1
reper of its reserved	empiles places of
	each point of whi
	Synther
entype dum name Emp	wise order
May Company	
Fran ho	of the includer of indi
	the module of come
(axtra)	Latine in spec
	Section (XXX)
	Comme Signal
	Lint ruin
	100 2 100 100 100 100 100 100 100 100 10
The second of th	Cut & James
	Locali spl
	Cogy &
-	
· · · · · · · · · · · · · · · · · · ·	

	5
	setum (x*x);
	3
	upid main
	int num
	cont26 Enter a nos";
1,	1. Thum'
	a fly a same a sel num / = //
	Squ (num);
L Y	act her
	2
	Planta la la laca de 12 de maio de 1900 de 190

