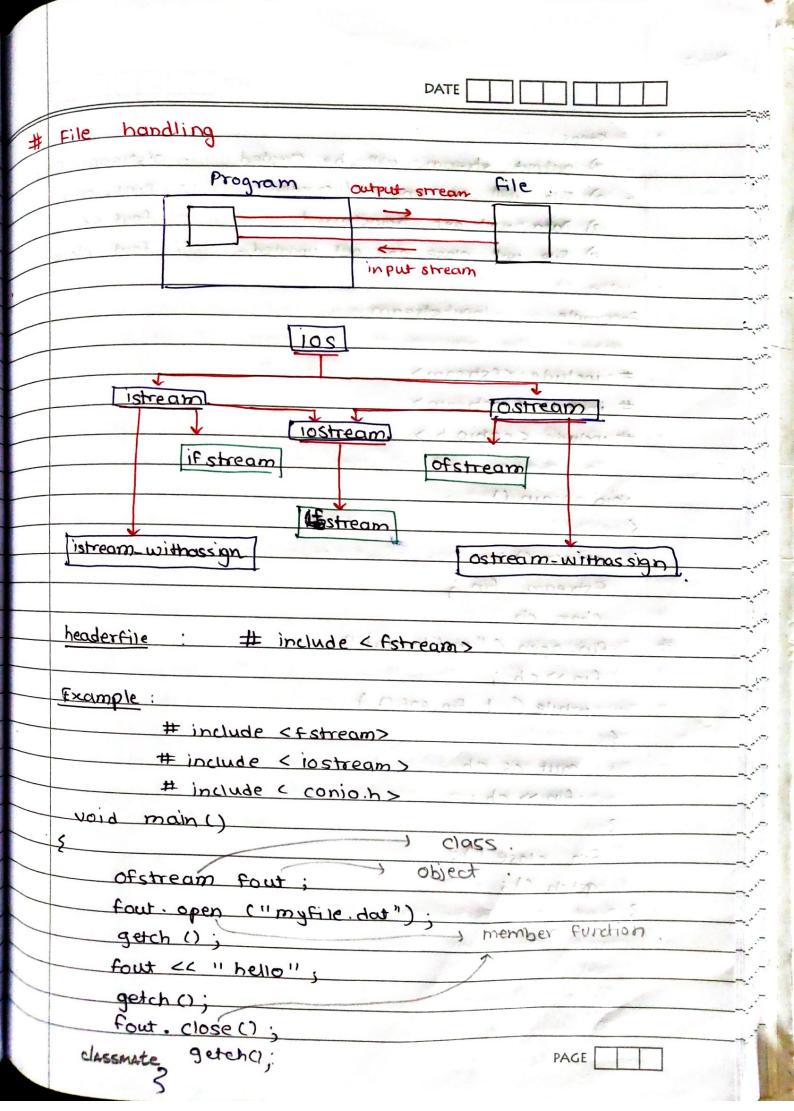
			1	DATE		
#	Virtual Functions	in C	++00.5	ng (1900)	ara la constitución	4
	Base class pointer	<u> </u>	× 10	1000	3 h 2 / 3 / 3	
	It can point to	the	object	of a	ny of it's	
	descendant dass					
	Converse is not			13 ' h	nV	
		5 3	()	-	22	
	Par	rent)	*	P		5
			/_			77
	$q^* \leftarrow Chi$	19	K -		8 2201	
	to star				dug	C.
	Example.	53	0	3 h	nV.	
	provi	13	Ox (m)	3 60	20	
	Class A					5
	\$					
	public:			0	arom t	11
	virtual void f1 () {3				13700111	
	3:			-1		
1700 Table 1 14	Class B : public A	4 2 2	4.00		ido a	
<i>E</i> 1	S Transport Lands				ra ijdo	
	public:				06) F2	
	Void f1 () {3				er ido	
	void f2() {3		11	tunction	overno	ing.
	3:					
	Void main ()			,		
	5					
	A +p, 61;					
	B 02					
	p = 402;					
	02. £1 (); //	0				
			MODE	^		
	p-)f1();	H	Wala	(+)	3 walar fi	
	classmate				PAGE	

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	when we use pointer of parent class for member
	of child class and call member function of child
	class. We need to use virtual befor parent
	member function.
	By writing virtual, compiler understands that
	early binding of F1 should not happen
	i.e. binding should nappen at run time.
	and the state of t
_	IF any class has atteast one virtual function,
	an extra variable (* vptr) will be created by
	compiler. It will be created only in the
	parent class.
	i 0 = 0 and big / Louise / i replace
	Also a static array will be created for both
	purent & child class. It will be called vtable.
	It contains address of virtual functions present in
	that class, and the state of th
	B on propertiend water you of terms my or is
En:	
	{ + vptr f2 f3 f4
	public:
	void fI() 53
	Virtual void for () {3
	virtual void f3 () {}
	virtual void f4() }}
	3:
	Closs B . papire H
	\$ void fi () 53
	Void F2 () {}
	Voia f4 (int x) {}
	3. classmate

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11.00	
Note:	Early binding -> consider type of pointer.
	Late binding -> consider vtable of the class
	The same of the sa
#	Abstract Class
	current the bluers is an entirely place and
•	Pure Virtual Function
	A do nothing function is called as pure vir
nort.	function
pd.	have a set the Crips ") secured actes in
	A do nothing function has no body definition
	Syntax: vistual void fun () = 0;
	is and becomes not the purpos state a sold -
51.42	Rujes - grand and the same of
0	An class object of class containing pure VF can
	never be made. (Let say A)
2)	If you want to use other functions in A.
	You can write a make a child class (B) and then
	coll object of P Rut
	pure VF and define it.
3	Disa to maid armine it
	Also to avoid early binding, make the funct
	VITION LOVE LANGE
	2 1 1 2 New Index
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-	d substitute of position
	5 3 C C c c c 2
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	Marie Programme and the second of the second
1	Classmate

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	1) serve - mi
•	A class containing pure virtual function is an abstract class.
<u>-</u>	we can not instantiate abstract class. i.e. can not make - an object.
#	Template
1	The keyword template is used to define function template and class template. It is a way to make your function or class generalize as far as data type is concerned.
<u>D</u>	Function template is also known as generic function
	template < Class X > x func-name (X arg-1) L) you can write anything here
	Example.
	template < crass z> x big (xa, xb)
	else
	return b;
	classmate

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58	in main ()
	Em a la l
	Cout << big (4,5);
	3.
	while early binding x is replaced by appropriate data type.
	he come in any to have an interest as a surface
2)	Class template.
	Class template is also known as generic class
, and	Syntax:
	template < class x > dass class-name {}
	Feramples
	The second secon
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	Steps :
	Doutput stream will be created : ofstream fout
	2) File will be opened / created : Fout open.
_	3) Data will get transferred fout <<
	4) File will close and get updated. ; fout close.
	The will close and get aprives.
	Example: inputstream.
	The second secon
	# include <fstream></fstream>
	# include Ciostream>
	# include < cohio.h >
	A le lan watch page 197
	Void main ()
	< , close
	chrscr c); abject
	Estream fin ;
	Char ch
-	fin. open ("myfile dat");
	fin >> ch; Function to find end of
	while (! fin.eof ()) file.
	Smarda to study at
	out cc ch
	fin >> ch;
	7
	Fin. close ();
	getch ()
	S contract to the second second
	The state of the s
	1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
and the second and the second second second second second	
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	Steps:
	i) and inputstream
	2) file will be opened
	3) extract data to from file using >>
	4) Close the file.
	ca. Water .
	Note: '>>' operator treats space" " as data separator so it will not read " it. To solve this instead of '>>' use get()
	mstead of the use ger
	g. fin >> ch; => ch = fin. get ();
<u>·</u>	File opening modes.
0	ios: in input / read
2)	
2)	
3)	ios: app oppend
4)	
3)	ios: binary
1	
	Common a harmorting and of anytoward to 150 of T
	Syntax
	fin. open ("mytile.dat", los :: app 1 ios :: binary)
+	
-	which are the state to the same without the same state of the same
+	a telestration to a soul from constant and
+	
-	and the state to be and and the second of th
	pace TT