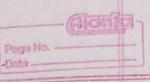
	Assignment - 2 Programo
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N. S.	Public:					
in the	virtual float calculate Area() = 0; Ax pure virtual					
	function */					
	3;					
- Eurockio	class Square: public Shape 11 Dersieved class 1					
di	Secol 1-45 file mailingue tradition					
-funci	float a;					
-10-	Public: sas volume 1 an assignitate					
- Agr	Square (float 1) // paramaterized constructor					
4 57 160	examine a treat the his select					
	9 = 1;					
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AN S	float calculate Area() // function					
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to later	12: 1 ste stiller to the see Ette					
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	class circle: public Shape // Desired class 2					
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	float or; the total of					
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	Circle (float x) // porgmetstred constructor					
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	float calculateArea () 11 function					
	STEEL STAD - CARBONIAN PORTER					
	return 3.14*8*8;					
	clare characteristics of the					
	};					
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```
class Rectangle: public Shape // Desieved class 3
     float lister walk for many of the
  float b;
   public:
   Rectangle (float x, float y) // parametrized oust.
          1 = X;
          b = y;
    float calculateArea () // Function
  int main ()
     Shape * shape; /* Here object name small
                       Shape written */
    Square 5(3.4);
    Rectangle & (5,6);
    int a1 = shape -> calculateArea ();
    shape = 28;
    int 92 = Shape -> calculate Area ();
     Shape = &C;
     int 93 = Shape -> calculateArea ();
```



BRRRRANANARR Std:: cout << " Area of the square is" << a1 · ZZS+d:: end1; SH:: cow << "Area of the rectangle is "<< 92 <<std:: end1; Std:: cout << "Area of the circle is" << 93 << std: end1; return o: lead alguster days output:of the square is 11 Area of the rectangle is 30 Area of the circle is 191 iscuss with example the following:

) how virtual functions are hierarchical

iconserved the following:

modes: Discuss with example the following: Ans: - (a) Virtual function is a member function in the base class that redefine in a desired class. It is declared by using 'virtual' keyword. It is used to tell the compiler to perform late binding on the function. When an object of desieved class

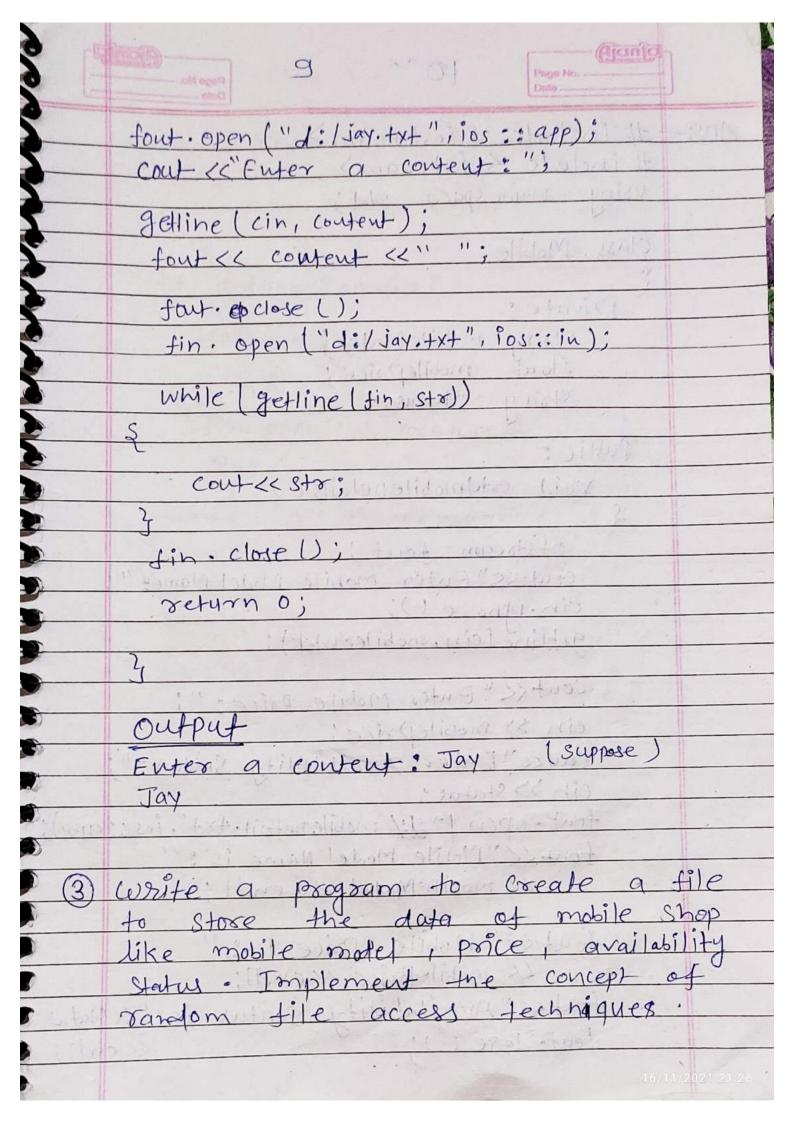
5 that function then call that function by Using then instead of base class desired class function is couled. Virtual functions are hierachical in desired class fails to con overside a virtual function. In this case the first redefinition found in reverse order and used it base class function is used. ADemo program to illustrate virtual functions ore hierarchical \*/ # include (instream) Using namespace Std; class base virtual void fun () public: cout<<" This base class vistual function. «end); 355555 class desired1: public base . Tribpublic: Zest send send to char

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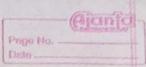
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	Modes	Description	s protoc			
	ios::app	Append mode. All	butput to that			
		file to be appende				
	ios:: in		man ling in			
		Open a file for	reading.			
	ios:: 6ut Open a file for writing					
	ids: binary	open in bingry				
176	ios:: ate	open a file for	output and			
- 7	en believe	more the read/o	write control			
13 15	504- 4019	To the End of				
1	-	and three minacts	olije e			
	1x Demo	program to ill	ystrate the			
ag	/* Demo program to illustrate the different Stream classes to use various file modes */					
	VIVIOUS SILC MODES					
, 1	#include (iostream)					
6 1-	# include < fstream> using namespace Std;					
161	Hitematical diament the state of the state o					
	int main ()					
0 6	of stro	am fout;	one sur			
	itstream fin;					
1	String Str, content;					

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(1110)



10 Ans: # include < iostream> # include < fstream> using namespace std; Private: String mobile Model \$ float mobileprice; String Status; Pusic: void addmobile Details () of stregon fout; Cout ( C' Enter Mobile Model Namea" cinignore (); getline (cin, mobile model); cont << " Enter Mobile Price: "; ein >> mobileprice; Cout("Enter Availability Status:"; cin >> Status; fout open 1"di/ mobile Detail . 4x+", ios : app) fout ( "Mobile Model Name is: 21 Mobile Model 2 (end); fout (( 'Mobile Price is: " La mobile Price (Kend); fout<< "Availability Status is:" ((Status << end1; fout-close ()'



11 cout << "Mobile details is added successfully"? L( end !; Void getonobile Details () ifstream fin; String Str fin. open ("d:/ mobileDetail. +x+"); cout ( " your Mobile Details ic; " " exend); while (getline (tin, str)) to cout <<. str << end ) fin. close (); int main () = 1 solors ) silves int choice; · Jug bin Cout ("Enter your choice: MI. Add Mobile
"Deteils!" (("Inz. Get Mobile Details.

