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24/10/24		A. A. S. S. S. S.	
	Lab program IV	7471770	
	C. CONTROL OF CONTROL	many of the section of	
	Develope Java program to creat	te abstract class	
,	moved shape that contains 2 integers and an		
	emoty method named prints	orial). Provide 3	
	closes named Rectangle, Touch	ingle and wice	
	gich that each one of the	classes extends class	
	Shape. Each one of the classes	contain only the	
	method printArnal) that prin	to area of given	
		e addition first	
	shape.	200	
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	import java. will. Scanner;	tors and second	
	abstract class Shape	The many what	
	(Lever were	
	Eloat dimlydim2;	AND THE !	
	Shape () 13	586	
	abstract vad printAria();	The state of the s	
		ord 2	
	class Rectangie extends stape		
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	Rectargle () { }	t should be see	
	void getal)	all a should all all	
	E man instrument	LEM STATE	
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	system. out println ("Er	ter leight of rectangle	
	dim1 = sc. next feat();		
	System. out, println ("Ent	er briadth of nectaryl	
	dim 2 = &. next Float();		
	San San Cara Cara	and the second live	
	void printAnual)		
	system. aut. printer 1"Arua		

	Transport	Page No. Dete
	class Triangle extends Shape	(1) - 11 - 13
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	Toriangle () {3	212 3351 3
	void getd()	
	2 - Flatte contra	
	Scanner &= new Scanner (System in);
	System. out , printer ("Ento	height of triangle: ")
	dim 1 = sc, nextfloat();	Specific Street and the first of
	System, out, printer ("Enter	base of briangle: ");
	System, out, printer con	
	dim 2 = sc. nextFloat();	
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	void printArial)	
		- dim 2.
	double area = 0.5 * din/ *	d (niquale: "tarea);
	System. out. printer (" Ania	a businger:
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_	class Circle extends shape	STATE STATE
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	void getd()	7. 2
		the Rotte base
	Scanner &= next Scanner (3	
1	System. out. printer ("Enter	radius of wicle: ");
	dim/ = & next Float();	2.0
	dim 2 = 0.06;	PARA O RE
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	void printaria ().	Y ANKA I
	1	11
	1 double area = Math PI * din	1 * dim1;

	Page No. Data		
	class min ()		
	1 willing static void main (Strung 1) args)		
	[pertangle nect = new kectangle (1)		
	Triangle tri = new Triangle (),	_	
	Circle circ = new Circle (7,	_	
	ruct tie, getd();	_	
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4	rect. printArial);	_	
	tri, printAreal);	_	
	circ. printAreal);	_	
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	output: 1 American Assessment and must and		
Harris	Output:		
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-1	Enter breadth of rectangle!		
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	Enter height of vacours.		
	4.2		
	Enter base of triangle:		
- 1	2 mi mare the same and the same		
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```
import java.util.Scanner;
abstract class Shape
{
        float dim1, dim2;
        abstract void printArea();
}
class Rectangle extends Shape
{
        void getd()
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter length of rectangle:");
                dim1=sc.nextFloat();
                System.out.println("Enter breadth of rectangle:");
                dim2=sc.nextFloat();
        }
        void printArea()
        {
        double area = dim1 * dim2;
        System.out.println("Area of Rectangle: " + area);
        }
}
class Triangle extends Shape
{
        void getd()
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter height of triangle:");
```

```
dim1=sc.nextFloat();
                System.out.println("Enter base of triangle:");
                dim2=sc.nextFloat();
        }
        void printArea()
        {
        double area = 0.5 * dim1 * dim2;
        System.out.println("Area of Triangle: " + area);
        }
}
class Circle extends Shape
{
  Circle() {}
        void getd()
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter radius of circle:");
                dim1=sc.nextFloat();
                dim2=0.0f;
        }
        void printArea()
        double area = Math.PI * dim1 * dim1;
        System.out.println("Area of Circle: " + area);
        }
}
class Main1
{
  public static void main(String[] args)
```

```
{
    Rectangle rect = new Rectangle();
    Triangle tri = new Triangle();
    Circle circ = new Circle();
        rect.getd();
        tri.getd();
        circ.getd();
    rect.printArea();
    tri.printArea();
    circ.printArea();
}
```

```
D:\lBM23CS330>java Main1
Enter length of rectangle:
2.5
Enter breadth of rectangle:
2.5
Enter height of triangle:
4.2
Enter base of triangle:
2
Enter radius of circle:
5.5
Area of Rectangle: 6.25
Area of Triangle: 4.199999809265137
Area of Circle: 95.03317777109123
D:\lBM23CS330>
```