

02/01/21	LAB Purgram (1):
	Develop a Java program to create an
	abstract class named shape that contains
-	two integers and an empty method.
	named printarea (). Perovide three classes
	named Rectangle, Tourangle and circle
	such that each one of the classes entinds
	the class thape Each one of the classes
	contain only the method printArea () that
	prints the area of the given shape.
	import java util Scanner
A STATE OF	abstract class shape {
*	double dime dim 2;
	shape (double a, double b) {
	dim 1 = a;
	dim 2 = b',
	<u>3</u>
	abstract void printArea ();
	3
	class Rectangle extends shope &
	Rectangle (double a, double b) &
	super (a, b);
-	<u></u>
-	void print drea () (
	System out println (" drea of rectangle
	is '7 (dim 1 * dim 2));
	3
	9
	class Toriangle extends shape &
	Touangle (double a, double b) &
	super (a,6);
	3
Eletion 1	

	void printarea () &
	system out println (" see of Triangle
	is " + (dim 1 * dim 2) /2)",
	7
,	4
	class circle extends shape of
	circle (double a, double b) {
	super (a, b);
	9
	final double pi = 3.14159;
-	void printarea ()
	system out println (" area of circle is
	+ pi * Math. pieco (dim 1, 2);
	y
	class Main (
	public static void main (string args (?)
	& Control of the cont
	scanner sc= new Scanner (system in);
	double a,b.
	system. out. printen ("Enter sides of.
	rectangle: "1;
	a = sc. nent Double ();
	b = sc. next Double ();
	lectangle r = new extangle (a,b);
	system out printen ("Enter height and
	a = sc. nent Double (1;
	b= Sc. next Double ();
	Triangle t = new Triangle (a, b);



System. out. println ("Enter reading of Circle:"); a = SC - nent Double (1;
0.50
to tent Douldo ():
Circle of
Circle c 2 new circle (a, 1);
Shape s.
S=r'
5. printarea ();
S = ±;
S. printaria ();
5 = c ·
SprintArea ();
2
3
autput:
Enter sides of sectangle:
of seletangle.
10
20
Enter bristy
Enter height and base of triangle:
30
40
Enter radius of will:
6
As as as C
Area of Triangle is 600.0
Area of Triangle is can
As a soul
Area of Circle is 113.09224
12h
40,61
No.