To age no .
Lab Parogram 4
Da alak a faria harangan to as a
Develop a Java perogram to create
an alisteract class named Shape that
contains the integers and an
empty method named pointAgea()
Peroride theree classes named
Rectangle, Triangle and Circle
such that each one of the
dans enter de the de Ci
classes extends the class Shape.
Each one of the classes contain
only the method perintAreal
that prints the area of the
given shape.
A CONTRACTOR OF THE PARTY OF TH
import jana util Scanner; class InputScanner
class Galacte
1 styriscanner
S.
Scanner S,
InputScanner()
Scanner 5; InputScanner()
S= new Scannon (Suite
J System, ins,
3 = new Scannon (System in);  3
alisteract class Shope extends InputScanner
1 Committee
unt a;
int a;
} absteract void displayArea();
} absteract void displayArea();

Date :..

class Rectangle extends Shape Rectangle Cint length, int windth a = length;
b = neidth;

// Orvervide displayfrea method
for Rectangle

@Overvide

void displayfrea()

{ System out frientln ("Area of
Rectangle:"+area); class Triangle extends Shape Triangle (int base, int height) 110 réveride displayérea method for Jouangle. Override void displayéreal double area = 0.5 \*a \*b;

System. out. println("Area of Triangle;"

+ area);

class Circle extends Shape Julia Circle (int radius) a=nadius; @Override void displayArea() double area = Math. PI \* a \*a; System. out. println ("Brea of Circle:" +area); public class mainclass public static void main (String Jarg) 11 Creating objects of Rectangle. Joinngle, and Circle Scanner SS = new Scanner (Systemin) System. out. printly ("Enter the dimensions of the rectangle . (length and breadth):"); int le=ss.nextInt(); ent br=55. nextInt(); Kectangle rectangle = new Rectangle (le, br); System, out frientln ("Enter the (base and height):");

int ba=ss. nextInt(); int he = ss nextorit(); Juiangle toriangle = new Torrangle (bate).
System out friently ("Enter the
dimension of the circle (radius):"); int r=58. next Int(); Circle circle = neue Circle(r); Il Calling displayarea for each shape rectangle displayArea(); toriangle displayArea(); circle displayArea(); Enter the dimensions of the rectangle ( length and breadth): Enter the dimensions of the triangle ( lease and height). Enter the dimension of the circle Area of Rectangle: 6.0 Area of Triangle: 40 Area of Cicle: 28, 274333882308138