Lab Brogram 4:
Develop a Java program to create an abstract class named
Shape that contains two integers and an empty method named
print Area (). Provide three classes named rectarge, triangle.
wide such that each one of the classes extends the
class shape . Each one of the classes contain only the
method point Area () that points the area of the given
Shape.
Leave the constraint to make the day of the party of the constraint.
abstract class Shapel
int din 1;
int dim2;
public shape ()é
this. dim 1 = 0;
this. dim 2 = 0;
3. · · · · · · · · · · · · · · · · · · ·
public abstract void printArea ();

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```
class Rectangle extends Shaped
      public Rectangle (int length, unt width)
          dim 1 = length;
         dim 2 = width;
     public Void print Area () &
            int area = dim1 + dim2;
            System-out printly l"Area of Rectangle: "+ area);
class Irriange entends Shape &
       public Driangle lint base, int height)
          dim1= base;
         dim 2 = Ireight;
```

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public void printArua () {	
double area = 0.5 *	dem1+ dim2;
	l"Area of Driange: "+ area);
y	, , , , , , , , , , , , , , , , , , , ,
3	
class Circle entende Shape &	
public Linds l'int gradius) {
dim 1 = radius;	
dim 2=0;	
3	
	e de la companya della companya dell
public void printArea ()	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	lath.P1 * dim1 = dim1;
	("Area of lircle: "tarea);
3	
3	i karangan
public class shapes é	
public static void mais (&	bring[] args)[
Scanner in = new Sca	
	Entu length and width of
Rectangle: ");	•
unt length = in next	Int();
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shape rectangle = new Rectangle (length, width);
rectangle.printArea ();

System. Out. print | ("Enter Base and Height of Driangle: "); unt Son base = in. nent Int (); int height = in. nent Int ();

Shape briangle = new Iriangle (base, height); toriangle. print Area ();

System. out. println ("Enter Radius of Circle:"); unt radius = in. next Int ();

Shape circle=new Circle (radius); circle.print Area();

un.close();

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Output		
Enter length and width for Rectangle:		
12		
6		
Area of Rectangle: 72		
Enter lease and height for briangle:		
8		
44		
Area of briangle: 176		
7		
Enter radius for linde:		
16		
Area of Circle: 804.2477		
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$\mathfrak{Z}_{\mathcal{O}}$.		