02101124 LAB 4: Page import java. wil . Scanner; class Enput Scanner Scanner s = new Scanner (System."in); double getInput (string prompt) & System. out . println ( prompt) Teturn S. nextDouble (); 3 abstract class Shape extends Enputscanners double sidel, sided: allistract void areal); class Rectangle entends shape [ Rectangle () side L = get Enput ("Ender leagth of rectangle: "); side 2 = get Enput ("Ender breadth of rectangle: ");

void area()

double area = sidel \* sidel; System. out. println ("Avea of rectangle = "+area);

class Triangle extends shape {

Triangle ()

'sidel = get Input ("Enter lease of the triangle: "); side2 = get Input ("Enter height of the triangle: ");

void area () dowle, area = side 1 \* side 2 / 2. System. out. println ("Area of the Triangle e"twee class circle extends shape h arde () sidel= getinput ("Enter the radius of the arcle: "); void areal) double, area = Math. PI \* side1 \* side1; System out printle (1 Avrea of the circle : 4 avre) class Main 12 L public static void main (String Args []) Rectangle rectangle: new Rectangle (); triangle Triangle = new triangle (); circle (ircle = new circle (); reitangle. assal); Triangle. areal); lirde. area ();

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4	Output:
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Enter the length of rectangle: 20
Enter the length of rectangle: 40
Enter the height of triangle: 8
Enter the lease of triangle: 6
Enter the radius of circle: 4

Area of the Rectangle = 800.0

Area of the Triangle = 24.0

Area of the Circle = 50.2654

02/01/24

```
Enter length of rectangle:
20
Enter breadth of rectangle:
40
Enter base of the triangle:
6
Enter height of the triangle:
8
Enter the radius of the circle:
4
Area of the Rectangle =800.0
Area of the circle=50.26548245743669
```