BHARATH
IBM19CS035

INHERITENCE – SHAPE – ABSTRACT

```
import java.util.*;
abstract class shape
{
    int a, b;
    abstract void public void printArea();
}
class rectangle extends shape
{
    rectangle(int x, int y)
    {
        a= x;
        b = y;
    }
    public void printArea()
    {
        System.out.println("Area of rectangle :"+a*b);
    }
}
```

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```
class triangle extends shape
{
    triangle (int x , int y)
    {
        a = x;
        b = y;
    }
    public void printArea ()
    {
     System.out.println("Area of triangle : " + ((a*b)/2));
}  }
class circle extends shape
 {
    circle (int y)
    {
        a = 0;
        b = y;
    }
    public void printArea ()
    {
     System.out.println("Area of circle:" + (3.14*b*b));
    }
}
```

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```
class Main
{
    public static void main (String args[])
    {
        Scanner sc = new Scanner (System.in);
        int a, b;
        System.out.println("Enter length of rectangle :");
        a = sc.nextInt();
        System.out.print("Enter breadth of rectangle :");
        b = sc.nextInt();
        rectangle r = new rectangle (a, b);
        r.printArea();
        System.out.print("Enter height of triangle :");
        a = sc.nextInt();
        System.out.print("Enter base of triangle :");
        b = sc.nextInt();
        triangle t = new triangle (a, b);
        t.printArea();
        System.out.print("Enter radius of circle :")
        b = sc.nextInt();
        circle c = new circle (b);
        c.printArea();
    }
}
```