11. Develop a Java Pgm to create an abs
-tract class named Shape that contains two
integers and an empty method named print
Area(), provide three classes name Rectang
, Triangle and Circle such that each one of
the classes extends the class Shape. Each
one of the classes contain only the metho
print Area() that prints the area of
The given Shape. */

```
import java.util.Scanner;
abstract class Shape
{
    abstract void printarea();
    int integer1;
    int integer2;
    int result;
}
class Rectangle extends Shape
{
    void printarea()
    {
        System.out.println("Rectangle:");
        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter the width");
        integer1 = Scanner.nextInt();
        System.out.println("Enter the height:");
        integer = new.nextInt();
        result = (integer1 * integer2);
        System.out.println("The value of area
            of rectangle is: "+result);
    }
}
class Triangle extends Shape{
    void printArea()
    {
        System.out.println("Triangle");
        System.out.println("Enter the base");
        integer1 = Scanner.nextInt();
```

```
        System.out.println("Enter height:");
        integer2 = scanner.nextInt();
double result = (0.5 * integer1 * integer2);
        System.out.println("The value of area of
        Triagle is:"+result);
    }
}

class circle extends shape
{
    void printArea()
    {
        System.out.println("circle");
        System.out.println("Enter the radius:");
        integer1 = scanner.nextInt();
double result = (3.14*integer1 * integer2)
        System.out.println("The value of area
        of circle is:"+result);
    }
}

class main
{
  public static void main(String args[])
  {
      Rectangle R = new Rectangle();
      Triagle T = new Triagle();
      circle C = new Circle();
      R.printArea();
      T.printArea();
      C.printArea();
  }
}
```

o/p

Rectangle

Enter width:
2
Enter height:
2
The value of area of rectangle is 4

Triagle

Enter Base:
2
Enter height:
2
The value of area of Triagle is:12.0

Circle

Enter radius
23
The value of area of circle is:1661.06