```
import java.util.*;

class Shape{
   int S_lenght;
   int S_breadth;

   void printArea(){

   }

   Scanner S_inp = new Scanner(System.in);
}

class Rectangle extends Shape{
   void printArea(){
      System.out.println("Enter the lenght of Rectangle");
      S_lenght = S_inp.nextInt();
      System.out.println("Enter the breadth of Rectangle");
      S_breadth = S_inp.nextInt();

      System.out.println("The AREA of RECTANGLE is  : "+ (S_breadth*S_lenght));
   }
}

class Trinagle extends Shape{
   void printArea(){
      System.out.println("Enter the Height : ");
      S_lenght = S_inp.nextInt();
      System.out.println("Enter the Base : ");
      S_breadth = S_inp.nextInt();
```

```
        System.out.println("The AREA of TRIANGLE is : " +(.5*S_breadth*S_lenght));
    }
}

class Circle extends Shape{
    void printArea(){
        System.out.println("Enter the Radius :");
        S_lenght = S_inp.nextInt();

        System.out.println("The AREA of CIRCLE is : "+(3.143*S_lenght*S_lenght));
    }
}



public class App {
    public static void main(String[] args) throws Exception {

        Rectangle R1 = new Rectangle();
        Trinagle T1 = new Trinagle();
        Circle C1 = new Circle();

        R1.printArea();
        T1.printArea();
        C1.printArea();
    }
}
```

```
Enter the lenght of Rectangle
4
Enter the breadth of Rectangle
5
The AREA of RECTANGLE is  : 20
Enter the Height :
4
Enter the Base :
2
The AREA of TRIANGLE is : 4.0
Enter the Radius :
2
Enter the Height :
4
Enter the Base :
2
The AREA of TRIANGLE is : 4.0
Enter the Radius :
2
The AREA of CIRCLE is : 12.572
PS D:\clg notes\3rd SEM\OOJava\New pro\Area-Inheritance>
```