```java
import java.util.scanner;
abstract class shape {
    int x,y;
    abstract void area();
    public static void main(String args[])
    {
        shape obj1= new circle();
        obj1.area();
        shape obj2 = new rectangle();
        obj2.area();
        shape obj3= new triangle();
        obj3.area();
    }
}
```

```
class circle extends shape {
    circle () {
        scanner sc = new scanner (system.in);
        System.out.println ("enter the radius of circle);
        x = sc.nextint ();
        y = x; }
    void area ()
    {
        System.out.println ("area of rectangle is "+
        x * y);
    }
}
}
```

```
class rectangle extends shape {
  rectangle() {
    scanner sc = new scanner(System..in);
    System.out.println("enter the length and
    breadth of the rectangle");
    x = sc.nextInt();
    y = sc.nextInt();
    void area()
  }
  {
    system.out.println("area of rectangle is" + x*y);
  }
}

class Triangle extends shape {
  triangle() {
    scanner sc = new scanner(system.xp);
    system.out.println("enter the base & height
    of the triangle");
    x = sc.nextInt();
    y = sc.nextInt(); }
    void area()
    {
      system.out.println("area of triangle is"
      +0.5*x*y);
    }
  }
}
```

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OUTPUT:
area of rectangle : 50
area of triangle : 16.0
area of circle : 113.097333

```
Area of Rectangle:20
Area of Triangle:10.0
Area of Circle:314.0
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```