

5)

Input:-

```
import java.util.Scanner;
```

```
class inputScanner {  
    void rec(Rectangle ab){  
        Scanner input
```

```
abstract class shape extends inputScanner {  
    int a, b;  
    abstract void printArea();  
}
```

```
class Rectangle extends shape {  
    Rectangle() {  
        rec(this);  
    }  
    void printArea() {  
        System.out.println("Area of Rectangle is: " +  
            (double) (a * b));  
    }  
}
```

```

class Triangle extends Shape {
    public Triangle(int base, int height) {
        triangle (base, height);
    }
    void printArea () {
        System.out.println("Area of
        triangle = " + (0.5 * a * b));
    }
}

```

```

class circle extends shape {

```

```

    triangle circle () { cir (this); }
    void printArea () {
        System.out.println("Area of
        the circle = " + (3.14 * a * a));
    }
}

```

```

class calc {

```

```

    public static void main (String [] args) {
        rectangle r = new rectangle ();
        triangle t = new triangle ();
        circle c = new circle ();

        r.printArea ();
        t.printArea ();
        c.printArea ();
    }
}

```

OUTPUT:

Enter the dimension of the rectangle (length & breadth):

4 5

Enter the dimension of triangle (base)
89
Enter the dimension of circle (radius)
6

Area of Rectangle = 20
Area of triangle = 36
area of circle = 113.0399

