```java
Import java.utilscanner;
class InputScanner {
        Scanner s = new scanner (system.in);
        double getInput (string prompt)
        System.out.println (prompt);
        return s.nextDouble ();
      }
}

abstract class shape extends InputScanner {
        double side1, side2;
        abstract void area ();
Class Rectangle extends shape {
        Rectang () {
        side1 = getInput (" enter length of
                    rectange: ");
        side2 = getInput ("enter breadth of
                    rectangle: ");
        void area () {
        double area = side1 * sid2;
        system.out.println (" Area of the
                    rectange = " +area );
            }
       }
    }
Class Triangle extends shape {
        triangle () {
                side1 = getInput (" Enter the
                    base of triangle: ");
                side2 = getInput (" Enter the
                    height of the triangle: ");
                void area () {
                    double area = side1 * side2/
```

```java
        System.out.println(" Area of triangle:"
                        + area);

            }

        }

    Class circle extends shape {
                    circle() {
                    side1 = getInput(" Enter the
                    radius of circle:" );
                    void area() {
                            double area = Math.PI *
                                    side1 * side2;
                            system.out.println(" the area
                            of circle = "+ area);
                    }

            }

    Class Main {
            public static void main (String args[])
            Rectangle irectangle = new Rectangle();
            Triangle triangle = new Triangle();
            Circle circle = new Circle();
            r.area();
            t.area();
            e.area();
            }
        }
```

Output:
Enter
length of the triangle:
Enter 3
Breadth of thetriangle:
4

~~Area of thetriangle 0:~~
18.

enter

Base of triangle:
3

Enter height of triangle:
4

Area of triangle
8

Enter radius of circle =
4

Area of Rectangle:
12.0

Area of triangle:
6.0

Area of circle: 6
50.26548245

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