**Question 5:**

class Polygon {

public static int area(int side) {

return side \* side;

}

public static double area(double radius) {

return 3.14 \* radius \* radius;

}

public static int area(int length, int width) {

return length \* width;

}

}

public class Lab03Q5 {

public static void main(String[] args) {

int side = 10;

System.out.println("side = " + side);

int areaSquare = Polygon.area(side);

System.out.println("area = " + areaSquare);

double radius = 6.5;

System.out.println("radius = " + radius);

double areaCircle = Polygon.area(radius);

System.out.println("area = " + areaCircle);

int length = 5;

int width = 4;

System.out.println("length = " + length + ", width = " + width);

int areaRect = Polygon.area(length, width);

System.out.println("area = " + areaRect);

}

}

**Outpt:**

side = 10

area = 100

radius = 6.5

area = 132.665

length = 5, width = 4

area = 20

**Question 6:**

class Rectangle {

int lenght;

int width;

Rectangle() {

lenght = 0;

width = 0;

}

Rectangle(int lenght, int width) {

this.lenght = lenght;

this.width = width;

}

int area() {

return lenght \* width;

}

}

public class Lab03Q6 {

public static void main(String[] args) {

Rectangle r1 = new Rectangle();

System.out.println("Area of rectangle 1: " + r1.area());

Rectangle r2 = new Rectangle(5, 3);

System.out.println("Area of rectangle 2: " + r2.area());

}

}

**Outpt:**

Area of rectangle 1: 0

Area of rectangle 2: 15