# Practical No:10

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**Objective:** WAP implementing static Polymorphism to find area of square, rectangle and a circle.

# Code :

import java.util.Scanner;

class \_01methodOverloading {

public static void area(int a) {

System.out.println("The area of square is: " + (a \* a));

}

public static void area(int a, int b) {

System.out.println("The area of rectangle is: " + (a \* b));

}

public static void area(float a) {

System.out.println("The area of circle is: " + (3.14 \* a \* a));

}

public static void main(String[] args) {

int choice;

System.out.print("\n(1. Square)\n(2. Rectangle)\n(3. Circle)\nEnter your choice: ");

Scanner sc = new Scanner(System.in);

choice = sc.nextInt();

switch (choice) {

case 1:

int sside;

System.out.print("Enter the side of the square: ");

sside = sc.nextInt();

area(sside);

break;

case 2:

int r1side, r2side;

System.out.print("Enter the side 1 of the rectangle: ");

r1side = sc.nextInt();

System.out.print("Enter the side 2 of the rectangle: ");

r2side = sc.nextInt();

area(r1side, r2side);

break;

case 3:

float radius;

System.out.print("Enter the radius of the circle: ");

radius = sc.nextFloat();

area(radius);

break;

default:

break;

}

sc.close();

}

}

# Output:

PS E:\03 Semester\Java\Assignments\Assignment\_03methodOverloading\_25oct> cd "e:\03 Semester\Java\Assignments\Assignment\_03methodOverloading\_25oct\" ; if ($?) { javac \_01methodOverloading.java } ; if ($?) { java \_01methodOverloading }

(1. Square)

(2. Rectangle)

(3. Circle)

Enter your choice: 2

Enter the length of the rectangle: 3

Enter the breadth of the rectangle: 5

The area of rectangle is: 15