Practical No:10

Name : Deepankar Sharma
Course: BCA
University Roll No: 2092014
Student Id : 20041299
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Objective: WAP implementing static Polymorphism to find area of square, rectangle and a circle.

Code :

```java
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();
```

```java
                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:

(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