Experiment No: 2

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Program:

Program 1: Write a program for a calculating Area using methods.

```
class AreaUsingMethod {
      public static void main(String args[]) {
             Area(15);
             Area(158, 20);
             Area(15.5);
             Area(15.6, 19.3);
      static void Area(int a) {
             System.out.println("Area of Square is: " + (a * a));
      static void Area(int a, int b) {
             System.out.println("Area of Triangle is: " + (a * b));
      static void Area(double a, double b) {
             System.out.println("Area of Rectangle is: " + (a * b));
      static void Area(double r) {
             System.out.println("Area of Circle is: " + (3.14 * r * r));
}
```

Program 2: Write a program for a calculating Area using method overloading.

```
class Area {
      String shape;
      double area;
      public void display() {
             System.out.println("Area of " + shape + " is : " + area);
      Area(double l, double b) {
             area = 1 * b;
             shape = "Rectangle";
      Area(int b, int h) {
             area = (h * b) / 2;
             shape = "Triangle";
      Area(int side) {
             area = side * side;
             shape = "Square";
      Area(double r) {
             area = 3.14 * (r * r);
             shape = "Cirle";
class EXP2 {
      public static void main(String Args[]) {
             Area s = new Area(15);
             Area r = \text{new Area}(15.5, 20.2);
             Area c = \text{new Area}(12.5);
             Area t = \text{new Area}(5, 9);
             s.display();
             r.display();
             c.display();
             t.display();
}
```

Output:

Select C:\Windows\system32\cmd.exe