

### Assignment -1

1. Create a class named 'Student' with String variable 'name' and integer variable 'roll\_no'. Assign the value of roll\_no as '2' and that of name as "John" by creating an object of the class Student.
2. Write a program to print the area of a rectangle by creating a class named 'Area' having two methods. First method named as 'setDim' takes length and breadth of rectangle as parameters and the second method named as 'getArea' returns the area of the rectangle
3. Assign and print the roll number, phone number and address of two students having names "Sam" and "John" respectively by creating two objects of class 'Student'.
4. Write a program to print the area and perimeter of a triangle having sides of 3, 4 and 5 units by creating a class named 'Triangle'
5. Write a program to print the area of two rectangles having sides (4,5) and (5,8) respectively by creating a class named 'Rectangle' with a method named 'Area' which returns the area and length and breadth passed as parameters
6. Print the average of three numbers entered by user by creating a class named 'Average' having a method to calculate and print the average.
7. Write a program that would print the information (name, year of joining, salary, address) of three employees by creating a class named 'Employee'. The output should be as follows:

Name	Year of joining	Address
Robert	1994	64C- WallsStreat
Sam	2000	68D- WallsStreat
John	1999	26B- WallsStreat
8. Add two distances in inch-feet by creating a class named 'AddDistance'.
- 9.

### 10. What happens when you compile the below class?

```
1  class A
2  {
3      int i;
4
5      static
6      {
7          System.out.println(i);
8      }
9  }
```

### 11. What will be the output of following program?

```
1
2  class A
3  {
4      {
5          System.out.println(1);
6      }
7
8      public A()
9      {
10         System.out.println(2);
11     }
12
13     public static void main(String[] args)
14     {
15         System.out.println(3);
16
17         A a = new A();
18     }
19 }
```

**12. What will be the output of the below program?**

```
1  public class A
2  {
3      {
4          System.out.println("First");
5      }
6
7      {
8          System.out.println("Second");
9      }
10
11     {
12         System.out.println("Third");
13     }
14
15     public A()
16     {
17         System.out.println("Fourth");
18     }
19 }
```

```

18     public static void main(String[] args)
19     {
20         System.out.println("Fifth");
21
22         A a = new A();
23     }
24
25
26

```

**13. Does below program run successfully? if yes, what will be the output?**

```

1
2
3     public class A
4     {
5         static int i = 10;
6
7         int j = 100;
8
9         {
10            methodOne();
11
12            i = 100;
13
14            j = 10;
15        }
16
17        void methodOne()
18        {
19            System.out.println("i = "+i);
20
21            System.out.println("j = "+j);
22        }
23
24        public static void main(String[] args)
25        {
26            A a = new A();
27
28            a.methodOne();
29        }
30    }
31
32

```