

MANAV RACHNA UNIVERSITY, FARIDABAD

Department of Computer Science and Technology

Course: B.Tech. CSE Semester: III

Subject: Object Oriented Programming using Java (CSH201B-T)

Tutorial: 6 static, this, Overloading

Objective: Problems on static, this keywords and method overloading in java

Course Outcomes:

CSH201B.1: To impart **understanding** of basic programming concepts in Java language.

CSH201B.2: To enable the student to articulate given program scenario and **apply** different programming constructs.

Blooms Taxonomy Level: BT1, BT2, BT3

1. Predict the output

```
class access
        public int x;
  static int y;
        void cal(int a, int b)
            x += a;
            y += b;
    }
    class static_specifier
        public static void main(String args[])
            access obj1 = new access();
            access obj2 = new access();
            obj1.x = 0;
            obj1.y = 0;
            obj1.cal(1, 2);
            obj2.x = 0;
            obj2.cal(2, 3);
            System.out.println(obj1.x + " " + obj2.y);
```

2. What is the output of this program?



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Blooms Taxonomy Level: BT3

3. What is process of defining two or more methods within same class that have same name but different parameters declaration?

Blooms Taxonomy Level: BT1

4. What is the output of the following code?

Blooms Taxonomy Level: BT3

```
class San
{
  public void m1 (int i,float f)
  {
    System.out.println(" int float method");
  }

public void m1(float f,int i);
  {
    System.out.println("float int method");
}
```



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```
public static void main(String[]args)
{
    San s=new San();
    s.m1(20,20);
}
```

5. What is the output of this program?

Blooms Taxonomy Level: BT3

```
class overload
     int x;
double y;
     void add(int a , int b)
         x = a + b;
     void add(double c , double d)
         y = c + d;
     overload()
          this.x = 0;
         this.y = 0;
 }
 class Overload_methods
     public static void main(String args[])
     {
          overload obj = new overload();
          int a = 2;
          double b = 3.2;
          obj.add(a, a);
          obj.add(b, b);
          System.out.println(obj.x + " " + obj.y);
```



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} }

- 6. Write a program in java that will justify the usage of constructor overloading? BT4
- 7. What is this keyword in Java? **BT1**
- 8. What do you mean by static method and class? Explain with Example **BT2**