Course-BTech Course Code- **CSET109** Year- First Type- Core Course Name- **Object Oriented Programming Using Java** Semester- Even Batch- BTech 2<sup>nd</sup> Semester

**Tutorial-7** 

Tutorial No.	Name	CO1	CO2	CO3
7	OOPs concepts	✓	✓	

**Objective:** The main objective of this tutorial is to learn about the object-oriented concepts of Java language.

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7.1 Analyse the given program segment and predict the output:
public class Test
{
       public int getData() //getdata() 1
              return 0;
       public long getData() //getdata 2
              return 1;
       public static void main(String[] args)
              Test obj = new Test();
               System.out.println(obj.getData());
}
7.2 What will be the output of the following program?
public class Test
{
       public int getData(String temp) throws IOException
              return 0;
       public int getData(String temp) throws Exception
              return 1;
       public static void main(String[] args)
              Test obj = new Test();
               System.out.println(obj.getData("GFG"));
```

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}
7.3 Predict the output of the following program:
public class Test
       private String function(String temp, int data)
               return ("Hi Everyone!!!!");
       private String function(int data, String temp)
               return ("Hello World!!!!");
       public static void main(String[] args)
               Test obj = new Test();
               System.out.println(obj.function(4, "GFG"));
}
7.4 What will be the output of the following program?
public class Test
{
       // Overloaded methods
       public void fun(Integer i)
               System.out.println("fun(Integer ) ");
       public void fun(String name)
               System.out.println("fun(String)");
       // Driver code
       public static void main(String [] args)
               Test mv = new Test();
               // This line causes error
               mv.fun(null);
}
7.5 What will be the output of the program?
public class Sum {
       public int sum(int x, int y) { return (x + y); }
       public int sum(int x, int y, int z)
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return (x + y + z);
       public double sum(double x, double y)
              return (x + y);
       public static void main(String args∏)
              Sum s = new Sum();
              System.out.println(s.sum(10, 20));
              System.out.println(s.sum(10, 20, 30));
              System.out.println(s.sum(10.5, 20.5));
}
7.6 What will be the output of this program?
import java.io.*;
class Student {
       public void StudentId(String name, int roll no)
                      System.out.println("Name:" + name + " " + "Roll-No:" + roll no);
       public void StudentId(int roll no, String name)
              System.out.println("Roll-No:" + roll no + " " + "Name:" + name);
class Main {
       public static void main(String[] args)
              Student obj = new Student();
              obj.StudentId("Spyd3r", 1);
              obj.StudentId(2, "Kamlesh");
}
7.7 What will be the output of the below program?
class Demo {
       public void show(int x)
              System.out.println("In int" + x);
       public void show(String s)
              System.out.println("In String" + s);
       public void show(byte b)
```

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System.out.println("In byte" + b);
       }
class UseDemo {
       public static void main(String[] args)
              byte a = 25;
              Demo obj = new Demo();
              obj.show(a);
              obj.show("hello");
              obj.show(250);
              obj.show('A');
              obj.show("A");
              obj.show(7.5);
       }
}
7.8 What will be the output of this program?
class Q2{
       public static void main(String args[]){
              int []A=new int[8];
              int i=0;
              for(i=-1;i\leq A.length-1;)
                      A[++i]=i;
               String res=""+A[2]+(4\%2)+(5\%2)+i;
              System.out.print(res);
       }
}
7.9 What will be the output of the following program?
class Q{
       public static void main(String args[]){
              int i=3;
              int e=6;
              int x=7;
              String s="";
              if((i+e)>=(i+x)){
                      s="gg";
              else if((i+e+x)>=15){
                      x++;
                      s="wp";
               }
```

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System.out.print(x+s);
       }
}
7.10 What will be the output of the following program?
class Base
{
       Base()
              System.out.println("Base");
       Base(int n)
              System.out.println("Base:"+n);
}
class Derive extends Base
       Derive()
              super(10);
              System.out.println("Derive");
       Derive(int n,int m)
              super(n);
              System.out.println("Derive:"+n+","+m);
       }
}
class Q6{
       public static void main(String args[]){
              Derive D1=new Derive();
              Derive D2=new Derive(40,50);
}
```