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

Tutorial-5

Tutorial No.	Name	CO1	CO2	CO3
3	Basics	✓	-	-

Objective: The main objective of this tutorial is to learn about the basics of Java language.

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5.1 What is the output of the program?
class Helper
  private int data;
  private Helper()
    data = 5;
}
public class Test
  public static void main(String[] args)
    Helper help = new Helper();
     System.out.println(help.data);
}
5.2 What will be the output of the following program?
public class Sketch {
  static int ad = 100;
  static int bc = 200;
  static {
    ad += 1;
     bc += 1;
  public static void main(String args∏) {
    ad += 5;
     bc += 10;
     System.out.println(ad + bc);
  }
  static {
    ad += 100;
     bc += 200;
}
```

```
5.3 What will be the output of the following program?
public class CallBy {
  static void execute(Byte x, Byte y) {
    System.out.println("execute, execute");
  static void execute(Byte x, Byte y, Byte z) {
    System.out.println("execute, execute, execute");
  static void execute(byte... x) {
    System.out.println("execute");
  public static void main(String[] args) {
    byte b = 5;
    execute(b);
    execute(b, b);
    execute(b, b, b);
    execute(b, b, b, b);
}
5.4 What will be the output of the following program?
public class NValueIs {
  public static void main(String[] args) {
    int num1 = 1;
    int num2 = 2;
    System.out.println("Before swap method, num1 is " + num1 + " and num2 is " + num2);
    swap(num1, num2);
    System.out.println("After swap method, num1 is " + num1 + " and num2 is " + num2);
  public static void swap(int n1, int n2) {
    int temp = n1;
    n1 = n2;
    n2 = temp;
}
5.5 Predict the output of the following program:
class Parent
  public void m1()
    System.out.println("Class Parent method");
public class Child extends Parent
 public void m2()
   System.out.println("Class Child method");
```

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}
 public static void main(String args[])
   Child obj = new Child();
   obj.m1();
   obj.m2();
5.6 Give the output of the following:
class X
 void display()
    System.out.println("class X dispaly method ");
class Y
 void display()
    System.out.println("class Y display method ");
public class Z extends X,Y
  public static void main(String args[])
     Z obj=new Z();
    obj.display();
5.7 What will be the output of the program?
public class Test
  public Test()
     System.out.printf("1");
     new Test(10);
     System.out.printf("5");
  public Test(int temp)
     System.out.printf("2");
     new Test(10, 20);
     System.out.printf("4");
  public Test(int data, int temp)
```

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System.out.printf("3");
     public static void main(String[] args)
     Test obj = new Test();
5.8 What will be the output of the program?
class Base
  public static String s = " Super Class ";
  public Base()
     System.out.printf("1");
}
public class Derived extends Base
  public Derived()
     System.out.printf("2");
     super();
public static void main(String[] args)
     Derived obj = new Derived();
     System.out.printf(s);
}
5.9 Predict the output of the following program:
class Parent
int a = 20;
class Child extends Parent
int a = 30;
void show()
System.out.println(a);//print child class value of a
System.out.println(super.a);//print parent class value of a
public static void main(String args[])
Child c = new Child();
c.show();
}
```

```
5.10 What will be the output of the following Java program?
public class Test
{
    public Test()
    {
        System.out.printf("1");
        new Test(10);
        System.out.printf("5");
    }
    public Test(int temp)
    {
        System.out.printf("2");
        new Test(10, 20);
        System.out.printf("4");
    }
    public Test(int data, int temp)
    {
        System.out.printf("3");
    }
    public static void main(String[] args)
    {
        Test obj = new Test();
    }
}
```