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
5	Basics	✓	-	-

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

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5.1 Analyse the given program segment and predict the output:
public class GFG {
  static String Employee name;
  static float Employee salary;
  static void set(String n, float p) {
    Employee name = n;
    Employee salary = p;
  static void get() {
    System.out.println("Employee name is: " +Employee_name );
    System.out.println("Employee CTC is: " + Employee salary);
  public static void main(String args[]) {
    GFG.set("Rathod Avinash", 10000.0f);
    GFG.get();
}
5.2 What will be the output of the following program?
public class College {
  public static void main(String[] args) {
    Student[] student = new Student[2];
    student[0] = new Student();
    student[0].name = "Khan";
    student[0] = new Student();
    student[0].name = "Kittu";
    student[1] = new Student();
    student[1].name = "Munna";
    for (Student element : student) {
       System.out.print(element.name + " ~ ");
     }
  }
class Student {
  String name;
```

```
5.3 Predict the output of the following program:
class A
  public A(String s)
     System.out.print("A");
 public class B extends A
  public B(String s)
     System.out.print("B");
  public static void main(String[] args)
     new B("C");
     System.out.println(" ");
5.4 What will be the output of the following program?
class ClassInheritance
{ public static void main(String s[])
     A = new A();
     a.i = 4;
     B b = new B();
     b.i = 10;
     b.j = 20;
     a = b;
     System.out.println("i = " + a.i);
class A
  int i;
class B extends A
  int j;
5.5 What will be the output of the program?
class Temp
  private Temp(int data)
     System.out.printf(" Constructor called ");
```

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}
  protected static Temp create(int data)
     Temp obj = new Temp(data);
     return obj;
  public void myMethod()
     System.out.printf(" Method called ");
public class Test
  public static void main(String[] args)
    Temp obj = Temp.create(20);
    obj.myMethod();
5.6 What will be the output of this program?
class A
  static int i;
  static
     System.out.println(1);
     i = 100;
}
public class StaticInitializationBlock
  static
     System.out.println(2);
  public static void main(String[] args)
     System.out.println(3);
     System.out.println(A.i);
5.7 What happens when you compile the below class?
class A
  int i;
  static
```

```
{
     System.out.println(i);
5.8 What will be the output of this program?
class A
  static int first;
   static String second;
   static
     System.out.println(1);
     first = 100;
   static
     System.out.println(2);
     second = "SECOND";
}
public class StaticInitializationBlock
  static
     System.out.println(3);
  public static void main(String[] args)
     System.out.println(4);
     System.out.println(A.first);
     System.out.println(A.second);
5.9 What will be the output of the following program?
lass Base
  public static String s = " Super Class ";
  public Base()
     System.out.printf("1");
public class Derived extends Base
  public Derived()
     System.out.printf("2");
```

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super();
  public static void main(String[] args)
    Derived obj = new Derived();
     System.out.printf(s);
5.10 What will be the output of the following program?
class QuantityOnLiters {
  public float getQuantity() { // LINE 1
    return 1;
  }
}
class QuantityOnGrams extends QuantityOnLiters {
  public int getQuantity() { // LINE 2
    return 100;
public class DemoOnQuantity {
  public static void main(String args[]) {
     QuantityOnGrams object = new QuantityOnGrams();
     System.out.println(object);
  }
}
```