School of Computer Science Engineering and Technology

Course-BTech
Course Code- **CSET109**Year- First

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

Tutorial-3

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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3.1 Analyse the given program segment and answer the following questions:
for(i = 3; i <=4; i++)
for(j=2; j< i; j++)
System.out.print("*"),
System.out.println("Simply");
(i) How many times in total will the inner loop execute?
(ii) Write the output of the program segment.
3.2 Give the output of the following program.
int i,i;
for (i=0; i<4; i++) { for (j=i; j>=0; j--)
System.out.print(j);
System.out.println();
}
3.3 Convert following do-while loop into for loop.
int i=1;
int d=5;
do{
d=d*2
System.out.println(d);
i++;
}while(i<=5);
3.4 Give the output and show the dry run.
public static void abc()
int x=1, i=2;
do
{
x=i;
while(++i <=5);
System.out.println(x);
```

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}
3.5 What will be the output of the program?
public class StrEqual {
  public static void main(String[] args) {
     String s1 = "hello";
     String s2 = new String("hello");
     String s3 = "hello";
     if (s1 == s2) {
       System.out.println("s1 and s2 equal");
       System.out.println("s1 and s2 not equal");
     if (s1 == s3) {
       System.out.println("s1 and s3 equal");
       System.out.println("s1 and s3 not equal");
3.6 Predict the output of the program?
public class StringinSwitchCase
 public static void main(String[] args)
    String fruit = "Apple";
    switch(fruit)
      case "Mango":
         System.out.println("Sweet");
         break;
      case "Apple":
         System.out.println("Delicious");
         break;
      case "Orange":
         System.out.println("Luscious");
         break;
      default:
         System.out.println("Not a fruit");
 }
3.7 What is the output of the following program?
class demo3 {
  public static void main(String args∏)
     byte[] arr = \{97, 98, 99, 100, 101\};
     String str2 = new String(arr);
```

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System.out.println(str2);
}
3.8 What will be the output of the following program?
Public class Test {
public static void main(String[] args)
     for (int i = 0; i < 10; i++)
       int x = 10;
}
3.9 What will be the output of the following program?
public class Test {
public static void main(String[] args)
     int i = 0;
     for (System.out.println("HI"); i < 1; i++)
       System.out.println("HELLO");
}
3.10 What will be the output of the following code?
int a, b;
for (a = 6, b = 4; a \le 24; a = a + 6)
       if (a \% b == 0)
                              break;
System.out.println(a);
```