School of Computer Science Engineering and Technology

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

Tutorial-4

Tutorial No.	Name	CO1	CO2	CO3
1	**Basics**	✓	--	--

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

4.1 What will be the Output of the below code:

```java
public class Array
{
        public static void main(String args[])
        {
                int []arr = {1,2,3,4,5};
                System.out.println(arr[5]);
        }
}
```

4.2 What will be the Output of the below code:

```java
class Test1 {
public static void main(String[] args)
        {
                int arr[] = { 11, 22, 33 };
                for (int i = 0; i < arr.length; i++)
                        System.out.print(arr[i] + " ");

                System.out.println();

                int arr2[] = new int[3];
                arr2[] = { 11, 22, 33 };
                for (int i = 0; i < arr2.length; i++)
                        System.out.print(arr2[i] + " ");
        }
}
```

4.3 What will be the output of the following program?

```java
class Test {
public static void main(String[] args)
        {
                String str[] = { "Geeks", "for", "Geeks" };
                System.out.println(str.length);
```

```
            System.out.println(str[0].length);
    }
}
```

4.4 What is the result of the following code?

```
class Test {
public static void main(String[] args)
        {
                int arr[] = new int[5];
                int arr2[] = new int['a'];
                byte bt = 10;
                int arr3[] = new int[bt];
                System.out.println(arr.length);
                System.out.println(arr2.length);
                System.out.println(arr3.length);
        }
}
```

4.5 What is the output of following code?

```
class Test2 {
public static void main(String[] args)
        {
                int a[] = new int[5]; // line 1
                int[] a11 = new int[]; // line 2
        }
}
```

4.6 Which of the following declarations are invalid?

```
class Testcase {
public static void main(String[] args)
        {
                int[][] arr1 = new int[2][3]; // Line 1
                int[][] arr2 = new int[2][]; // line 2
                int[][] arr3 = new int[][]; // line 3
                int[][] arr4 = new int[][2]; // line 4
        }
}
```

4.7 What would be the result of the following code?

```
class Test{
public static void main(String[] args)
        {
                int arr[][] = { { 11, 22 }, { 33, 44, 55 } };
                for (int i = 0; i < 2; i++) {
                        for (int j = 0; j < arr.length; j++)
                                System.out.print(arr[i][j] + " ");
                        System.out.println();
```

```
            }
        }
}
```

4.8 What will be the output of the following program?

```java
class Test {
public
        static void main(String[] args)
        {
                int arr[] = new int[5];
                int arr2[] = new int[5];
                System.out.print(arr.length + " ");
                System.out.print(arr2.length());
        }
}
```

4.9 What will be the Output of the below code:

```java
import java.util.Arrays;
class Test {
        public static void main(String[] args)
        {
                String[] arr= { "The", "quick", "brown", "fox", "jumps",
                                "over", "the", "lazy", "dog" };
                String s = Arrays.toString(arr);
                System.out.println(s);
        }
}
```

4.10 What will be the Output of the below code:
```java
public class Main
{
    public static void main(String []args)
    {
      int arr[]={5,3,1,6,2};

      int val=0;

      val = arr[0];
      for(int i=1; i<arr.len();i++)
      {
        if (val > arr[i])
            val = arr[i];
      }

      System.out.println(val);
    }
}
```