**Tutorial 7:**

1)

// file name: Main.java

public class Main {

    public static void main(String args[]) {

       int arr[] = {10, 20, 30, 40, 50};

       for(int i=0; i < arr.length; i++)

       {

             System.out.print(" " + arr[i]);

       }

    }

}

2)

class Test {

   public static void main(String args[]) {

     int arr[2];

     System.out.println(arr[0]);

     System.out.println(arr[1]);

   }

}

3)

class Test {

   public static void main(String args[]) {

     int arr[] = new int[2];

     System.out.println(arr[0]);

     System.out.println(arr[1]);

   }

}

4)

public class Main {

    public static void main(String args[]) {

        int arr[][] = new int[4][];

        arr[0] = new int[1];

        arr[1] = new int[2];

        arr[2] = new int[3];

        arr[3] = new int[4];

        int i, j, k = 0;

        for (i = 0; i < 4; i++) {

            for (j = 0; j < i + 1; j++) {

                arr[i][j] = k;

                k++;

            }

        }

        for (i = 0; i < 4; i++) {

            for (j = 0; j < i + 1; j++) {

                System.out.print(" " + arr[i][j]);

                k++;

            }

            System.out.println();

       }  } }

5)

class Test

{

    public static void main (String[] args)

    {

        int arr1[] = {1, 2, 3};

        int arr2[] = {1, 2, 3};

        if (arr1 == arr2)

            System.out.println("Same");

        else

            System.out.println("Not same");

    }

}

6)

Which of these is an incorrect array declaration?

a) int arr[] = new int[5].

b) int [] arr = new int[5].

c) int arr[] = new int[5].

d) int arr[] = int [5] new

7)

**int** arr[] = **new** **int** [5];

System.out.println(arr);

8)

1. **class** array\_output
2. {
3. **public** **static** **void** main(String args[])
4. {
5. **int** array\_variable [] = **new** **int**[10];
6. **for** (**int** i = 0; i < 10; ++i)
7. {
8. array\_variable[i] = i;
9. System.out.print(array\_variable[i] + " ");
10. i++;
11. }
12. }
13. }

9)

1. **class** multidimention\_array
2. {
3. **public** **static** **void** main(String args[])
4. {
5. **int** arr[][] = **new** **int**[3][];
6. arr[0] = **new** **int**[1];
7. arr[1] = **new** **int**[2];
8. arr[2] = **new** **int**[3];
9. **int** sum = 0;
10. **for** (**int** i = 0; i < 3; ++i)
11. **for** (**int** j = 0; j < i + 1; ++j)
12. arr[i][j] = j + 1;
13. **for** (**int** i = 0; i < 3; ++i)
14. **for** (**int** j = 0; j < i + 1; ++j)
15. sum + = arr[i][j];
16. System.out.print(sum);
17. }
18. }

10)

1. **class** evaluate
2. {
3. **public** **static** **void** main(String args[])
4. {
5. **int** arr[] = **new** **int**[] {0 , 1, 2, 3, 4, 5, 6, 7, 8, 9};
6. **int** n = 6;
7. n = arr[arr[n] / 2];
8. System.out.println(arr[n] / 2);
9. }
10. }

11)

1. **class** array\_output
2. {
3. **public** **static** **void** main(String args[])
4. {
5. **int** array\_variable[][] = {{ 1, 2, 3}, { 4 , 5, 6}, { 7, 8, 9}};
6. **int** sum = 0;
7. **for** (**int** i = 0; i < 3; ++i)
8. **for** (**int** j = 0; j < 3 ; ++j)
9. sum = sum + array\_variable[i][j];
10. System.out.print(sum / 5);
11. }
12. }

**return** output / arr.length;}