

LAB # 04

LAB TASK

Q No. 1: The following program shows the two methods of 2D array initialization and is implemented in java. You are required to implement in C++?

```
// This program shows two methods of Two Dimensional Arrays Initialization
package arrays;

public class TwoDimArrayDemol
{
    public static void main(String[] args)
    {
        int array[][] = new int [3][3];
        array[0][0]= 70;
        array[0][1]= 80;
        array[0][2]= 90;
        array[1][0]= 10;
        array[1][1]= 70;
        array[1][2]= 30;
        array[2][0]= 95;
        array[2][1]= 77;
        array[2][2]= 76;
        System.out.println("\n1st Method of Array Initialization\n");
        for(int row=0 ; row<3 ; row++)
        {
            for(int col=0 ; col<3 ; col++)
            {
                System.out.print(array[row][col] + " ");
            }
            System.out.println(""); //goto new line
        }

        System.out.println("\n2nd Method of Array Initialization\n");
        int marks[][] = {{30,40,50},{70,80,10},{12,45,67},{};
        for(int row=0 ; row<3 ; row++)
        {
            for(int col=0 ; col<3 ; col++)
            {
                System.out.print(marks[row][col] + " ");
            }
            System.out.println(""); //goto new line
        }
    }
}
```

Output should be like that:

```
1st Method of Array Initialization

70 80 90
10 70 30
95 77 76

2nd Method of Array Initialization

30 40 50
70 80 10
12 45 67
```

Q No. 2: The following program will take values from user for two-dimensional array and display the values is implemented in java. You are required to implement in C++?

```
//This program will take values From user for two dimensional array and display the values
package arrays;

import java.util.Scanner;

public class TwoDimArrayDemo2
{
    public static void main(String[] args)
    {
        Scanner input = new Scanner(System.in);
        int array[][] = new int [3][3];

        for(int row=0 ; row<3 ; row++)
        {
            for(int col=0 ; col<3 ; col++)
            {
                System.out.print("array[" +row+ "]" + "[" + col+ "]" + "=");
                array[row][col] = input.nextInt();
            }
            System.out.println("\nValues Of Array \n");
        }

        for(int row=0 ; row<3 ; row++)
        {
            for(int col=0 ; col<3 ; col++)
            {
                System.out.print(array[row][col] + " ");
            }
            System.out.println("");
        }
    }
}
```

Output should be like that:

```
array[0][0] =2
array[0][1] =4
array[0][2] =2
array[1][0] =56
array[1][1] =78
array[1][2] =86
array[2][0] =54
array[2][1] =33
array[2][2] =22
|
Values Of Array

2 4 2
56 78 86
54 33 22
```