

## 6. IMPLEMENTATION OF STRINGS AND ARRAYS

### 1) 1-D ARRAY

```
2) import java.util.Scanner;
3) class Array
4) {
5) public static void main(String[] args)
6)     {
7)         int i, n;
8)         Scanner sc=new Scanner(System.in);
9)         System.out.println("Enter Number of elements in an Array :");
10)        n = sc.nextInt();
11)        int Array[] = new int[n];
12)        System.out.println("Enter the elements  :");
13)        for(i=0;i<n;i++)
14)        {
15)            Array[i]=sc.nextInt();
16)        }
17)        System.out.println("elements in the array are:");
18)        for(i=0;i<n;i++)
19)        {
20)            System.out.println(Array[i]);
21)        }
22)    }
23) }
```

### OUTPUT:-

```
C:\Users\Dnyanesh\Desktop\java>javac Array.java

C:\Users\Dnyanesh\Desktop\java>java Array.java
Enter Number of elements in an Array :
3
Enter the elements  :
6 7 8
elements in the array are:
6
7
8
```

## 2) 2-D ARRAY

```
import java.util.Scanner;
class Matrix
{
public static void main(String[] args)
    {
        int i,j,r,c;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Number of rows :");
        r = sc.nextInt();
        System.out.println("Enter number of columns:");
        c = sc.nextInt();
        int Matrix[][]= new int[r][c];
        System.out.println("Enter the elements :");
        for(i=0;i<r;i++)
        {
            for(j=0;j<c;j++)
            {
                Matrix[i][j]=sc.nextInt();
            }
        }
        System.out.println(" ");

        System.out.println("elements in the array are:");
        for(i=0;i<r;i++)
        {
            for(j=0;j<c;j++)
            {
                System.out.print(Matrix[i][j] + " ");
            }
            System.out.println(" ");
        }
    }
}
```

**OUTPUT:-**

```
C:\Users\Dnyanesh\Desktop\java>java mATRIX.java
Enter Number of rows :
2
Enter number of columns:
2
Enter the elements :
2 3 4 5

elements in the array are:
2 3
4 5
```

### 3. STRINGS

```
class Tp
{
    int id;
    String name;
    Tp(String s,int i)
    {id=i;
    name=s;
    }
    public static void main(String args[])
    {
        Tp tp=new Tp("Dnyanesh",22);
        System.out.println("Emp name:\t"+ tp.name+"\tid"+tp.id);
    }
}
```

### OUTPUT:-

```
C:\Users\Dnyanesh\Desktop\java>javac Tp.java

C:\Users\Dnyanesh\Desktop\java>java Tp.java
Emp name:          Dnyanesh          id22

C:\Users\Dnyanesh\Desktop\java>|
```