

## Practical No 2

### Write a Java program to illustrate the concept of array

**A. write a java program to accept and display single dimensional array**  
**Program:**

```
public class JavaApplication7 {  
    public static void main(String[] args) {  
        int array[];  
        array=new int[5];  
        System.out.println("Array elements are=");  
        for(int i=0;i<array.length;i++)  
        {  
            array[i]=i+1;  
            System.out.println(array[i]);  
        } //end for  
    } //end main  
} //end class
```

**Output:**

run:

Array elements are=

1  
2  
3  
4  
5

**B. write a java program to accept and display two dimensional array**  
**Program:**

```
import java.io.DataInputStream;  
import java.io.IOException;  
public class TwoDiArray {  
    public static void main(String[] args) throws IOException {  
        int ar[][]=new int[4][3];  
        DataInputStream dis=new DataInputStream(System.in);  
        System.out.println("Enter 12 element of 4x3 array");  
        for(int i=0;i<=3;i++){  
            for(int j=0;j<=2;j++){
```

```

        ar[i][j]=Integer.parseInt(dis.readLine());
    }//end j
} //end i
System.out.println("array element are=");
for(int i=0;i<=3;i++){
    for(int j=0;j<=2;j++){
        System.out.print(ar[i][j]+" ");
    }//end j
    System.out.println();
} //end i
} //end main
} //end class

```

**Output:**

run:

Enter 12 element of 4x3 array

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12

array element are=

1 2 3  
4 5 6  
7 8 9  
10 11 12

**F.write a java program to accept value of a,b,c which are co-efficient of quadratic equation .**

**Program:**

```

import java.io.DataInputStream;
import java.io.IOException;

public class Quadratic {
    public static void main(String[] args) throws IOException {

```

```

int a,b,c;
DataInputStream dis = new DataInputStream(System.in);
System.out.println("Enter the values of a,b,and c=");
a=Integer.parseInt(dis.readLine());
b=Integer.parseInt(dis.readLine());
c=Integer.parseInt(dis.readLine());
double temp1=(b*b)-(4*a*c);
if(temp1<0)
    temp1=temp1*(-1);
double temp=Math.sqrt(temp1);
double root1=(-b+temp)/(2*a);
double root2=(-b-temp)/(2*a);
    System.out.println("roots of quadratic equation are "+root1+" and"+root2);
}
}

```

**Output:**

run:

Enter the values of a,b,and c=

1

-2

-8

roots of quadratic equation are 4.0 and-2.0