

1D - Arrays

Program 01 - write a program that creates an integer array of 10 elements, accept values of arrays and then display the values.

```
import java.util.*;
public class test{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 10 array elements :");
        int arr[] = new int[10];
        for(int i = 0; i < arr.length; i++)
            arr[i] = sc.nextInt();
        System.out.println("Array : ");
        for(int i = 0; i < arr.length; i++)
            System.out.print(arr[i] + " ");

    }
}
```

Program 02 - Write a program that creates an integer array of 10 elements, accepts values of array and prints the array in reverse order.

```
import java.util.*;
public class test{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 10 array elements :");
        int arr[] = new int[10];
```

```

        for(int i=0; i<arr.length; i++)
            arr[i] = sc.nextInt();
        System.out.print("Original array : " + " ");
        for(int j=0; j<arr.length; j++)
            System.out.print(arr[j]);
        System.out.print("Reverse array :");
        for(int k = arr.length-1; k>=0; k--)
            System.out.print(arr[k] + " ");
    }
};

```

Program 03 - write a program that creates an integer array of 10 elements, accepts values of arrays and then find sum, average, maximum, minimum values.

```

import java.util.*;
public class test{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        int sum = 0, max, min;
        double average;
        System.out.println("Enter 10 array elements :");
        int arr[] = new int[10];
        for(int i = 0; i<arr.length; i++)
            arr[i] = sc.nextInt();
        System.out.println("Array :");
        max = arr[0];
        min = arr[0];
        for(int j = 0; j < arr.length; j++){
            if(min > arr[j]){
                min = arr[j];
            }
            if(max < arr[j]){
                max = arr[j];
            }
        }
    }
}

```

```

        sum += arr[j];
    }
    average = (double) sum / arr.length;
    System.out.println("sum :" + sum);
    System.out.println("average :" + average);
    System.out.println("maxx :" + max);
    System.out.println("min :" + min);
    }
}

```

Program 04 - write a program that creates an integer array of 10 elements, accepts values of array and print only even numbers.

```

import java.util.*;
public class test{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 10 array elements :");
        int arr[] = new int[10];
        for(int i = 0; i<arr.length; i++)
            arr[i] = sc.nextInt();
        System.out.println("Even numbers :");
        for(int j = 0; j < arr.length; j++){
            if(arr[j] % 2 == 0){
                System.out.println(arr[j]);
            }
        }
    }
}

```

Program 05 - write a program that creates an integer array of 10 elements, accepts values of array and find sum of odd numbers.

```

import java.util.*;
public class test{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 10 array elements :");
        int sumOdd = 0;
        int arr[] = new int[10];
        for(int i = 0; i < arr.length; i++)
            arr[i] = sc.nextInt();
        for(int j = 0; j < arr.length; j++){
            if(arr[j] % 2 != 0){
                sumOdd = sumOdd + arr[j];
            }
        }
        System.out.println("sum of odd numbers : " + sumOdd);
    }
}

```