ASSIGNMENT - 3

School of Computer Science and Engineering
CSE1004 – Problem Solving Using Java
Digital Assignment

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1. Java Program to Sort the Array in an Ascending Order and Descending Order using method.

```
import java.util.Scanner;
public class Main
{
    public static void main(String[] args)
    {
        int n, temp;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter no. of elements you want in array:");
        n = s.nextInt();
        int a[] = new int[n];
        System.out.println("Enter all the elements:");
        for (int i = 0; i < n; i++)
        {
            a[i] = s.nextInt();
        }
        for (int i = 0; i < n; i++)
        {
            for (int j = i + 1; j < n; j++)
            {
```

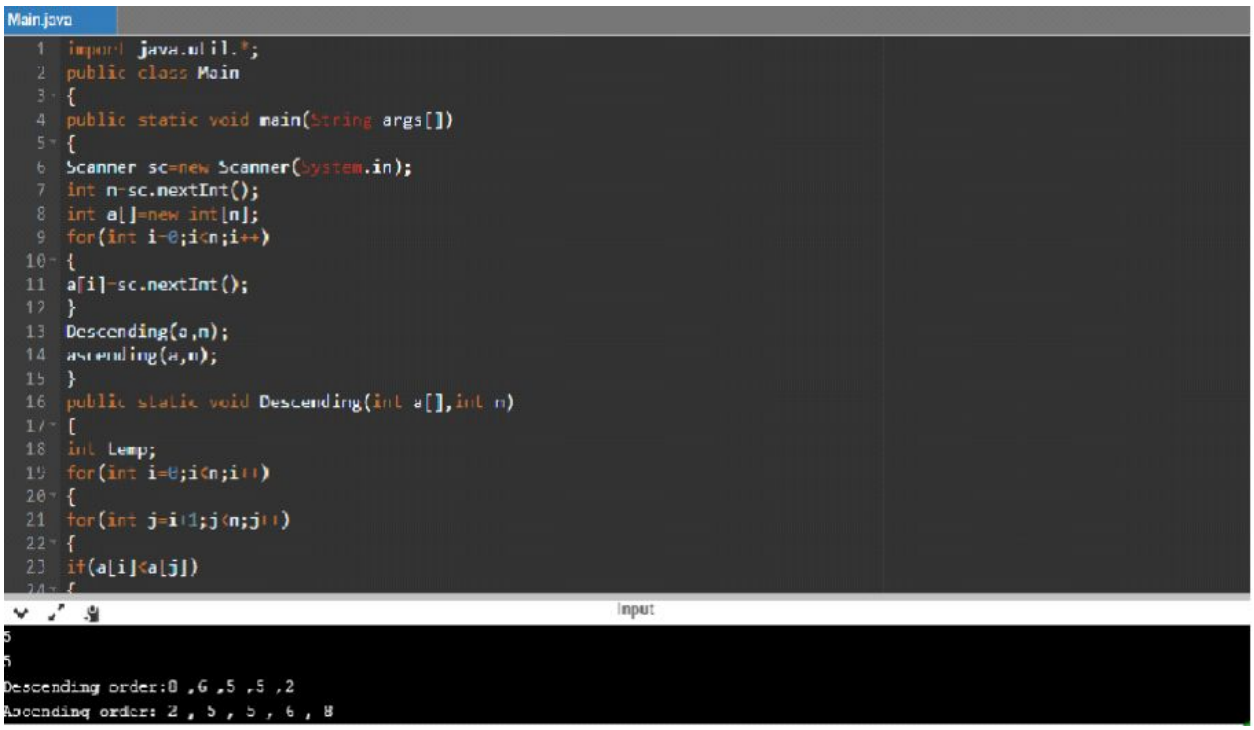
```
                if (a[i] > a[j])
                {
                    temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                }
            }
        }
        System.out.print("Ascending Order:");
        for (int i = 0; i < n - 1; i++)
        {
            System.out.print(a[i] + ",");
        }
        System.out.print(a[n - 1]);
    }
}
```

Decending order

```
import java.util.Scanner;
public class Main
{
    public static void main(String[] args)
    {
```

```
int n, temp;
Scanner s = new Scanner(System.in);
System.out.print("Enter no. of elements you want in array:");
n = s.nextInt();
int a[] = new int[n];
System.out.println("Enter all the elements:");
for (int i = 0; i < n; i++)
{
    a[i] = s.nextInt();
}
for (int i = 0; i < n; i++)
{
    for (int j = i + 1; j < n; j++)
    {
        if (a[i] < a[j])
        {
            temp = a[i];
            a[i] = a[j];
            a[j] = temp;
        }
    }
}
System.out.print("Descending Order:");
for (int i = 0; i < n - 1; i++)
{
```

```
            System.out.print(a[i] + ",");
        }
        System.out.print(a[n - 1]);
    }
}
```



2 . Searching of an element in array

using method.

```
import java.util.*;
class Main
{
public static void main(String args[])
{
Scanner sc=new Scanner(System.in);
int n=sc.nextInt();
int a[]=new int[n];
for(int i=0;i<n;i++)
{
a[i]=sc.nextInt();
}
int x=sc.nextInt();
searching(a,x);
}
static void searching(int a[],int x)
{
int flag=0,i=0;
for(i=0;i<a.length;i++)
{
if(a[i]==x)
{
flag=1;
break;
```

```
}
else
flag=0;
}if(flag==1)
System.out.println("found at :"+i);
else
System.out.println("not found");
}
}
```

```
import java.util.*;
class Main
{
public static void main(String args[])
{
Scanner sc=new Scanner(System.in);
int n=sc.nextInt();
int a[]=new int[n];
for(int i=0;i<n;i++)
{
a[i]=sc.nextInt();
}
int x=sc.nextInt();
searching(a,x);
}
static void searching(int a[],int x)
{
int flag=0,i=0;
for(i=0;i<a.length;i++)
{
if(a[i]==x)
{
flag=1;
break;
```

input

```
..Program finished with exit code 1
Press ENTER to exit console.
```