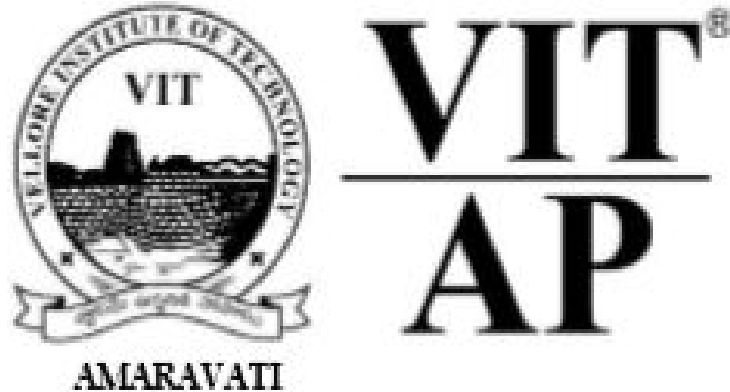


ASSIGNMENT - 3



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

70034 - Prof. Deepasikha Mishra - SE

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(19BCE7346)

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;

        }

    }

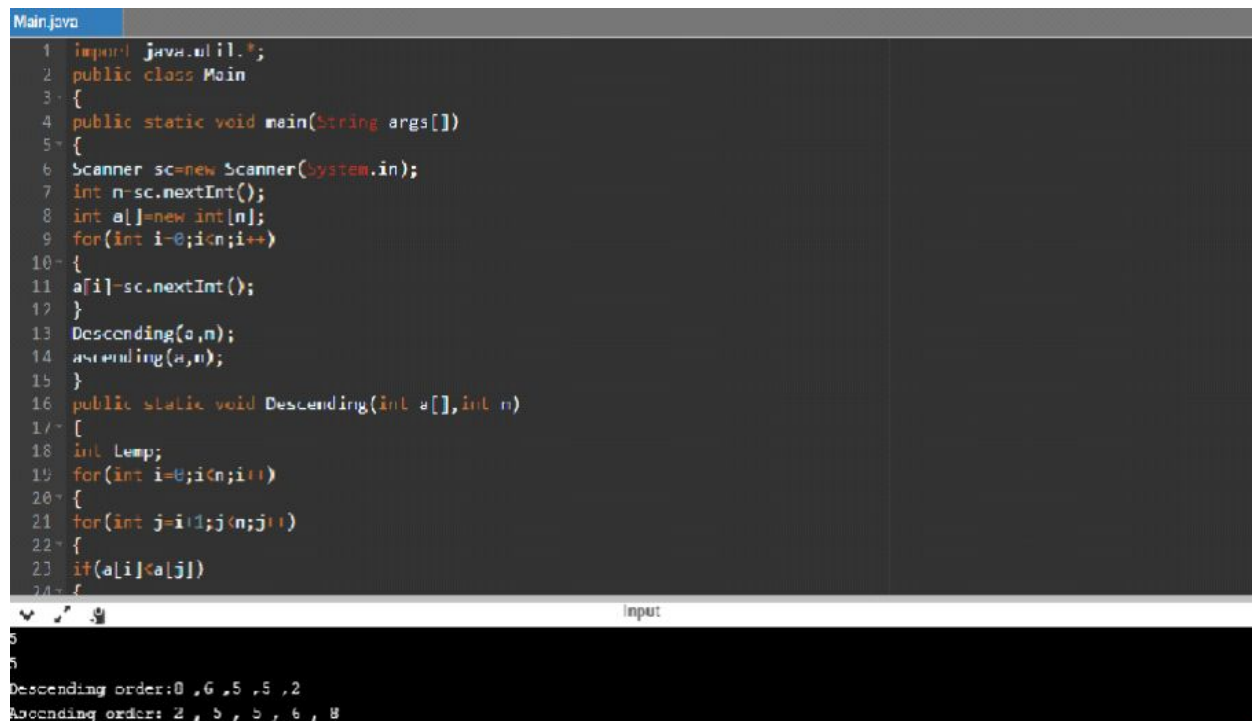
}

System.out.print("Descending Order:");

for (int i = 0; i < n - 1; i++)

{
```

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



The screenshot shows a Java IDE with a file named 'Main.java'. The code implements a sorting algorithm (likely bubble sort) and prints the array in both descending and ascending order. The output window shows the results for an input array of [0, 6, 5, 5, 2].

```
1 import java.util.*;  
2 public class Main  
3 {  
4     public static void main(String args[])  
5     {  
6         Scanner sc=new Scanner(System.in);  
7         int n=sc.nextInt();  
8         int a[]=new int[n];  
9         for(int i=0;i<n;i++)  
10        {  
11            a[i]=sc.nextInt();  
12        }  
13        Descending(a,n);  
14        ascending(a,n);  
15    }  
16    public static void Descending(int a[],int n)  
17    {  
18        int temp;  
19        for(int i=0;i<n;i++)  
20        {  
21            for(int j=i+1;j<n;j++)  
22            {  
23                if(a[i]<a[j])  
24                {
```

Input:
5
0
6
5
5
2
Descending order: 0 , 6 , 5 , 5 , 2
Ascending order: 2 , 5 , 5 , 6 , 8

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");  
}  
}
```

```
1 import java.util.*;  
2 class Main  
3 {  
4     public static void main(String args[])  
5     {  
6         Scanner sc=new Scanner(System.in);  
7         int n=sc.nextInt();  
8         int a[]=new int[n];  
9         for(int i=0;i<n;i++)  
10        {  
11            a[i]=sc.nextInt();  
12        }  
13        int x=sc.nextInt();  
14        searching(a,x);  
15    }  
16    static void searching(int a[],int x)  
17    {  
18        int flag=0,i=0;  
19        for(i=0;i<a.length;i++)  
20        {  
21            if(a[i]==x)  
22            {  
23                flag=1;  
24                break;
```

input

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