

EXPERIMENT NO. 5

Program on Array And String Functions

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Branch : CMPN (A)

Roll No : 21102A0044

Subject : Skill Based Lab : Object Oriented
Programming With Java.

Batch : 2

Date :

Signature :

Output

Enter The Number of Elements In Array

5

2 1 -2 6 8

Sorted Array:

-2 1 2 6 8

EXPERIMENT NO. 5

AIM:

Program on array and string functions.

COURSE:

OUTCOME

To elaborate the concept of strings and arrays and vectors.

IMPLEMENTATION:

i) Array.

```
import java.util.*;
class array
{
    public static void main(String args[])
    {
        Scanner t = new Scanner(System.in);
        int temp;
        System.out.println("Enter The Number Of Elements In Array");
        int n = t.nextInt();
        int a[] = new int[n];
        System.out.println("Enter The Elements In Array");
        for (int i = 0; i < n; i++)
            a[i] = t.nextInt();
        for (int i = 0; i < n - 1; i++)
        {
            for (int j = 0; j < n - 1; j++)
            {
                if (a[j] > a[j + 1])
                {
                    temp = a[j];
                    a[j] = a[j + 1];
                }
            }
        }
    }
}
```

STRING:

Output

Enter the String To Be Checked For Palindrome

sahas

sahas is A Palindrome


```

        a[j+1] = temp;
    }
}
}
System.out.println("Sorted Array :");

System.out.print("\n");
for(int i=0; i<n; i++)
    System.out.print(a[i] + " ");
}
}

```

ii) String:

```

import java.util.*;
class string1
{
    public static void main(String[] args)
    {
        Scanner t = new Scanner(System.in);
        String s;
        int i, j, flag = 0;
        System.out.println("Enter the String To Be Checked For Palindrome");
        s = t.next();
        i = 0;
        j = s.length() - 1;
        while(i < j)
        {
            if(s.charAt(i) != s.charAt(j))

```

```
{  
    flag = 1;  
    break;  
}  
    i++;  
    j--;  
}  
if (flag == 0)  
{  
    System.out.println(s + " Is A Palindrome");  
}  
else  
{  
    System.out.println(s + " Is Not A Palindrome");  
}  
}  
}
```

EXPERIMENT NO. 6

Program On Vectors

Name : Chaitanya Mandale

Branch : CMPN (A)

Roll No : 21102A0044

Subject : Skill Based Lab : Object Oriented Programming
With Java

Batch : 2

Date :

Signature :

OUTPUT :

Enter Number Of Students

3

Enter Name of students

Bhj

NjK

MkL

Menu:

1: Insert Element

2: Delete Element

3: Display

4: Exit

Enter choice

1

Enter Name of Student And Its Position

frt 2

Record Inserted...

Menu:

1: Insert Element

2: Delete Element

3: Display

4: Exit

Enter choice

2

Enter Name of Student

hju

Entered student Is Not Present In Records

Menu:

1: Insert Element

2: Delete Element

3: Display

4: Exit

Enter choice

3

Bhj

NjK

~~hju~~

MkL

EXPERIMENT NO. 6

AIM:

Program on vectors.

COURSE OUTCOME:

To elaborate the concept of strings, arrays, vectors.

IMPLEMENTATION:

```
import java.util.*;
class vector1
{
    public static void main(String args[])
    {
        Scanner t = new Scanner(System.in);
        int j;
        Vector v = new Vector();
        System.out.println("Enter Number of Students");
        int n = t.nextInt();
        System.out.println("Enter Name of Students");
        for(int i = 0; i < n; i++)
        {
            String s = t.next();
            v.addElement(s);
        }
        while(true)
        {
            System.out.println("Menu: \n 1: Insert Element \n 2: Delete Element \n 3: Display \n 4: Exit \n Enter Choice \n");
            int ch = t.nextInt();
            if (ch == 4)
```

```

    {
        break;
    }
    switch (ch)
    {
        case 1 :
        {
            System.out.println("Enter Name Of Student And Its  
Position");
            String s1 = t.next();
            int p = t.nextInt();
            v.insertElementAt(s1, p);
            System.out.println("Record Inserted");
        }
        break;
    }
    case 2 :
    {
        System.out.println("Enter Name Of Student");
        String s2 = t.next();
        for (j=0; j<v.size(); j++)
        {
            if (s2.equals(v.elementAt(j).toString()) == true)
            {
                System.out.println("Entered Student Is Present  
In Records");
                v.removeElement(s2);
                System.out.println("Record Deleted...");
                break;
            }
        }
    }
}

```

```
if (j == v.size())
```

```
{  
    System.out.println("Enter Student Is Not Present  
        In Records");  
}
```

```
}
```

```
} break;
```

```
case 3:
```

```
for (int i=0 ; i < v.size(); i++)
```

```
    System.out.println(v.elementAt(i).toString());
```

```
    break;
```

```
default:
```

```
    System.out.println("Invalid Choice");
```

```
}
```

```
}
```

```
}
```

```
}
```