

## CYCLE-2

### 1. Program to Sort strings

#### CODE:

```
import java.util.Scanner;
import java.util.Arrays;
public class sort
{
    public static void main(String[] args)
    {
        int i,j;
        Scanner sc = new Scanner(System.in);
        System.out.println("Name : Viswajith \nReg No : SJC22MCA-2057 \nDate : 24/03/2023 \nCourse code : 20MCA132");
        System.out.println("-----\n\n");
        System.out.println("Enter the number of words");
        int num=sc.nextInt();
        String word[]=new String[num];
        sc.nextLine();
        for( i=0;i<num;i++)
        {
            System.out.println("\nEnter a Word\n");
            word[i]=sc.nextLine();
        }
        for( i=0;i<num-1;i++)
        {
            for( j=i+1;j<num;j++)
            {
                if(word[i].compareTo(word[j])>0)
                {
                    String temp = word[i];
                    word[i]=word[j];
                    word[j]=temp;
                }
            }
        }
        System.out.println("Sorted Strings using compareTo function =" +Arrays.toString(word));
        System.out.println(word);
    }
}
```

## OUTPUT:

```
sjcet@HP-Z238:~$ javac sort.java
^[[Asjcet@HP-Z238:~$ java sort
Enter the number of words
2

Enter a Word

hai dear

Enter a Word

a cup of tea?
Name : Vidhya
Reg.no : SJC22MCA-2055
Date : 04/04/2023
Course code : 20MCA132
-----
Sorted Strings using compareTo function =[a cup of tea?, hai dear]
[Ljava.lang.String;@677327b6
```

## 2. Search an element in an array.

### CODE:

```
import java.util.Scanner;

public class Search
{
    public static void main(String[] args)
    {
        int i,j,x=0;
        boolean state = false;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of elemets in array");
        int num=sc.nextInt();
        String word[]=new String[num];
        sc.nextLine();
```

```

    for( i=0;i<num;i++)
    {
        System.out.println("\nEnter a Word\n");
        word[i]=sc.nextLine();
    }
    System.out.println("Enter the element to Search");
    String search = sc.nextLine();
    for( i=0;i<num;i++)
    {
        if(word[i].equals(search))
        {
            x = i;
            state = true;
        }
    }
    System.out.println("Name : Viswajith \nReg.no : SJC22MCA-2057\nDate :04/04/2023\nCourse
code : 20MCA132\n-----");
    if(state)
    {
        System.out.println("Element found at position = "+x);
    }
    else
    {
        System.out.println("Element found not found");
    }
}
}

```

**OUTPUT:**

```

sjcet@HP-Z238:~$ java Search
Enter the number of elemets in array
3

Enter a Word

sree

Enter a Word

sona

Enter a Word

shanu
Enter the element to Search
sona
Name : Vidhya
Reg.no : SJC22MCA-2055
Date : 04/04/2023
Course code : 20MCA132
-----
Element found at position = 1

```

### 3. Perform string manipulations

#### CODE:

```

import java.util.Scanner;
public class String_man{
    public static void main(String[] args) {
        System.out.println("Enter The String");
        Scanner sc = new Scanner(System.in);
        String str1 = sc.nextLine();
        System.out.println("Name : Viswajith\nReg.no : SJC22MCA-2057\nDate : 04/04/2023\nCourse
code : 20MCA132\n-----");
        System.out.println("Length of String = "+str1.length());
        System.out.println("Character at First position = "+str1.charAt(0));
        System.out.println("String Contains 'Col' sequence :"+str1.contains("Col"));
        System.out.println("String ends with e : "+str1.endsWith("e"));
        System.out.println("Replace'col' with 'kol' : "+str1.replaceAll("Col","kol"));
        System.out.println("LOWERCASE : "+str1.toLowerCase());
    }
}

```

```

        System.out.println("UPPERCASE : "+str1.toUpperCase());
    }
}

```

#### OUTPUT:

```

sjcet@HP-Z238:~$ java String_man
Enter The String
Columnspace
Name : Vidhya
Reg.no : SJC22MCA-2055
Date : 04/04/2023
Course code : 20MCA132
-----
Length of String = 11
Character at First position = C
String Contains 'Col' sequence :true
String ends with e : true
Replace'col' with 'kol' : kolumnspace
LOWERCASE : columnspace
UPPERCASE : COLUMNSPACE

```

**4. Program to create a class for Employee having attributes eNo, eName eSalary. Read n employ information and Search for an employee given eNo, using the concept of Array of Objects.**

#### CODE:

```

import java.util.Scanner;
import java.util.Scanner;
public class employee {
    int eNo;
    String eName;
    double eSalary;
    public void getdetails(){
        System.out.println("\nEnter the Employee details");
        Scanner sc = new Scanner(System.in);
        System.out.println("Employee number : ");
        eNo=sc.nextInt();

```

```

        System.out.println("Name : ");
        sc.nextLine();
        eName=sc.nextLine();
        System.out.println("Salary : ");
        eSalary=sc.nextDouble();
    }
    void display(){
        System.out.println("Empolyee No :"+eNo);
        System.out.println("Name :"+eName);
        System.out.println("Salary Amount is "+eSalary+"\n");
    }
    public static void main(String[] args) {
        System.out.println("\nEnter the No. of Employee's");
        Scanner sc1 = new Scanner(System.in);
        int num = sc1.nextInt();
        employee arr[]=new employee[num];
        for(int i =0;i<num;i++){
            arr[i]=new employee();
            arr[i].getdetails();
        }
        System.out.println("\nInformations of all the employee's");
        for(int i=0;i<num;i++){
            arr[i].display();
        }
        System.out.println("Name : Viswajith\nReg.no : SJC22MCA-2057 due : 04/04/2023\nCourse code : 20MCA132\n-----");
        boolean state = false;
        System.out.println("\nEnter the Employee Number to get details of a employee");
        int num2= sc1.nextInt();
        for(int i=0;i<num;i++){
            if(arr[i].eNo==num2){
                System.out.println("\nEmployee details");
                arr[i].display();
            }
        }
    }
}

```

**OUTPUT:**

Enter the No. of Employee's  
2

Enter the Employee details  
Employee number :  
1011  
Name :  
shanu  
Salary :  
89000

Enter the Employee details  
Employee number :  
1012  
Name :  
saranaya  
Salary :  
89000

Informations of all the employee's  
Empolyee No :1011  
Name :shanu  
Salary Amount is 89000.0

Empolyee No :1012  
Name :saranaya  
Salary Amount is 89000.0

Name : Vidhya  
Reg.no : SJC22MCA-2055  
Date : 04/04/2023  
Course code : 20MCA132  
-----

Enter the Employee Number to get details of a employee  
1011

Employee details  
Empolyee No :1011  
Name :shanu  
Salary Amount is 89000.0