

CYCLE 2**1. Program to Sort strings****CODE**

```
import java.util.Scanner;
import java.util.Arrays;
public class stringsort
{
    public static void main(String[] args)
    {
        int i,j;
        Scanner sc = new Scanner(System.in);
        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:~/riya/java/cycle2$ java stringsort.java  
  
RIYA ROY - 22MCA045 - 04/04/2023  
  
Enter the number of words  
3  
  
Enter a Word  
rose  
  
Enter a Word  
jasmine  
  
Enter a Word  
lilly  
Sorted Strings using compareTo function =[jasmine , lilly, rose]
```

2. Search an element in an array.

```
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("\n RIYA ROY - 22MCA045 - 04/04/2023\n");
        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;
            }
        }
        if(state)
        {
            System.out.println("Element found at position = "+x);
        }
        else
```

```
        {  
            System.out.println("Element found not found");  
        }  
    }  
}
```

OUTPUT

```
sjcet@HP-Z238:~/riya/java/cycle2$ java search.java  
RIYA ROY - 22MCA045 - 04/04/2023  
Enter the number of elemets in array  
3  
Enter a Word  
pushpu  
Enter a Word  
roshu  
Enter a Word  
sandhra  
Enter the element to Search  
sandhra  
Element found at position = 2
```

3. Perform string manipulations

```
import java.util.Scanner;
public class string_man
{
    public static void main(String[] args)
    {
        System.out.println("\n RIYA ROY - 22MCA045 - 04/04/2023\n");
        System.out.println("Enter The String");
        Scanner sc = new Scanner(System.in);
        String str1 = sc.nextLine();
        System.out.println("Length of String = "+str1.length());
        System.out.println("Character at First position = "+str1.charAt(1));
        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:~/riya/java/cycle2$ java string_man.java
RIYA ROY - 22MCA045 - 04/04/2023
Enter The String
chocolate
Length of String = 8
Character at First position = h
String Contains 'Col' sequence :false
String ends with e : true
Replace'col' with 'kol' : chocolate
LOWERCASE : chocolate
UPPERCASE : CHOCOLATE
```

4. Program to create a class for Employee having attributes eNo, eName eSalary.

Read nemploy information and Search for an employee given eNo, using the concept of Array of Objects.

```
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"+eSalary+"\n");
    }
    public static void main(String[] args) {
        System.out.println("\n RIYA ROY - 22MCA045 - 04/04/2023\n");
        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();
}
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

RIYA ROY - 22MCA045 - 04/04/2023

Enter the No. of Employee's
3

Enter the Employee details
Employee number :
100
Name :
pushpa
Salary :
15000

Enter the Employee details
Employee number :
101
Name :
roshni
Salary :
20000

Enter the Employee details
Employee number :
102
Name :
sandhra
Salary :
30000

Informations of all the employee's
Empolyee No :100
Name :pushpa
Salary Amount15000.0

Empolyee No :101
Name :roshni
Salary Amount20000.0

Empolyee No :102
Name :sandhra
Salary Amount30000.0

Enter the Employee Number to get details of a employee
101

Employee details
Empolyee No :101
Name :roshni
Salary Amount20000.0