Aim: Program to Sort strings. **CO2:** Implement Strings and Arrays.

```
Procedure:
```

```
import java.util.Scanner;
public class sort
       public static void main(String[] args)
               Scanner obj=new Scanner(System.in);
               System.out.println("Enter string array size");
               Integer n=obj.nextInt();
               String arr[]=new String[n];
               System.out.println("Enter elements");
               int i=0,j;
               for(i=0;i< n;i++)
               arr[i]=obj.next();
                                        //because in string array
               System.out.println("Printing original");
               for(i=0;i< n;i++)
               System.out.println(arr[i]);
               String temp;
               for(i=0;i< n;i++)
                       for(j=i+1;j< n;j++)
                               if(arr[i].compareTo(arr[j])>0)
                                       temp=arr[i];
                                       arr[i]=arr[j];
                                       arr[j]=temp;
                               }
               System.out.println("Printing sorted array");
               for(i=0;i< n;i++)
               System.out.println(arr[i]);
       }
```

Output:

}

```
C:\Users\ajcemca\Desktop\Shyam>javac sort.java
C:\Users\ajcemca\Desktop\Shyam>java sort
Enter string array size
3
Enter elements
SK
PK
AK
Printing original
SK
PK
AK
Printing sorted array
AK
Printing sorted array
AK
C:\Users\ajcemca\Desktop\Shyam>
```

Result:

Aim: Search an element in an array.

CO2: Implement Strings and Arrays.

Procedure:

```
import java.util.Scanner;
public class Arraysearch
       public static void main(String[] args)
               Scanner obj=new Scanner(System.in);
               System.out.println("Enter the size of array");
               Integer n=obj.nextInt();
               int arr[]=new int[n];
               int i,flag=0;
               System.out.println("Enter the elements of array");
               for(i=0;i<arr.length;i++)
                       arr[i]=obj.nextInt();
               System.out.println("Enter item to be searched");
               Integer item=obj.nextInt();
               System.out.println("searching");
               for(i=0;i<arr.length;i++)
          {
               if(item==arr[i])
                       System.out.println("Value found at loc "+i);
                       flag=1;
                }
           }
                if(flag==0)
                       System.out.println("item not found");
      }
}
```

Output:

```
C:\Users\ajcemca\Desktop\Shyam>javac Arraysearch.java
C:\Users\ajcemca\Desktop\Shyam>java Arraysearch
Enter the size of array
3
Enter the elements of array
3
2
5
Enter item to be searched
1
searching
item not found
C:\Users\ajcemca\Desktop\Shyam>
```

Result:

Aim: Perform string manipulations

CO2: Implement Strings and Arrays.

Procedure:

```
import java.util.Scanner;
public class strman
{
       public static void main(String[] args)
               Scanner obj=new Scanner(System.in);
               System.out.println("Enter two strings:");
               String str1=obj.nextLine();
               String str2=obj.nextLine();
               System.out.println("string concat is :"+str1.concat(str2));
               if(str1.equals(str2))
                       System.out.println("Both string are same");
               }
               else
                       System.out.println("Both string are not same");
               System.out.println("string to upper caseis: "+str1.toUpperCase());
               System.out.println("string to lower case is: "+str2.toLowerCase());
               System.out.println("substring is: "+str1.substring(1,3));
     System.out.println("Trim function is :"+str1.trim());
     System.out.println("Length of first string is :"+str1.length());
       }
}
```

Output:

```
C:\Users\ajcemca\Desktop\Shyam>javac strman.java
C:\Users\ajcemca\Desktop\Shyam>java strman
Enter two strings:
Shyam
Daya
string concat is :ShyamDaya
Both string are not same
string to upper caseis: SHYAM
string to lower case is: daya
substring is: hy
Trim function is :Shyam
Length of first string is :5
C:\Users\ajcemca\Desktop\Shyam>
```

Result:

Aim : 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.

CO2: Implement Strings and Arrays.

Procedure:

```
import java.util.Scanner;
public class Emp
{
       int eno;
       String ename;
       int esalary;
       public void get()
              Scanner cin=new Scanner(System.in);
              System.out.println("Enter employee number: ");
              eno=cin.nextInt();
              System.out.println("Enter employee name: ");
              ename=cin.next();
              System.out.println("Enter salary of employee: ");
              esalary=cin.nextInt();
       }
       public void display()
              System.out.println("*******Employee********);
              System.out.println("Employee number: "+eno);
              System.out.println("Employee name: "+ename);
              System.out.println("Salary : "+esalary);
       }
       public static void main(String[] args)
```

```
int i;
        Scanner cin=new Scanner(System.in);
       System.out.println("Enter the limit of array:");
       int n=cin.nextInt();
       Emp e[]=new Emp[n];
       for(i=0;i< n;i++)
        {
               e[i]=new Emp();
               e[i].get();
        }
       for(i=0;i< n;i++)
        {
               e[i].display();
        }
       System.out.println("Enter the eno:");
       int val=cin.nextInt();
       int flag=0;
       for(i=0;i< n;i++)
        {
               if(e[i].eno==val)
                       e[i].display();
                       flag=1;
               }
if(flag==0)
        System.out.println("Not found");
}
```

}

Output:

```
C:\Users\ajcemca\Desktop\Shyam>java Emp
Enter the limit of array:
Enter employee number:
Enter employee name:
Enter salary of employee:
10000
Enter employee number:
200
Enter employee name:
Enter salary of employee:
********Employee*******
Employee number : 100
Employee name : S
Salary : 10000
********Employee*******
Employee number : 200
Employee name : K
Salary : 8000
Enter the eno:
10
Not found
C:\Users\ajcemca\Desktop\Shyam>
```

Result: