**6. Program to Sort strings**

**Program:**

```
import java.util.Scanner;
import java.util.Arrays;
public class StringSort
{
   public static void main(String[] args)
   {
      int n;
      String temp;
      Scanner s = new Scanner(System.in);
      System.out.print(" Abhirami Vinod\n 23MCA002\n 26-FEB-2024\n");
      System.out.print("Enter number of strings you want to enter:\n");
      n = s.nextInt();
      String strings[] = new String[n];
      Scanner s1 = new Scanner(System.in);
      System.out.println("Enter all the Strings:");
      for(int i = 0; i < n; i++)
      {
         strings[i] = s1.nextLine();
      }
      System.out.println("Array: " + Arrays.toString(strings));
Arrays.sort(strings);
System.out.println("Sorted Array: " + Arrays.toString(strings));
   }
}
```

**Output:**

```
mca@HP-Z238:~/abhirami/java/c2$ javac StringSort.java
mca@HP-Z238:~/abhirami/java/c2$ java StringSort
 Abhirami Vinod
 23MCA002
 26-FEB-2024
Enter number of strings you want to enter:
3
Enter all the Strings:
red
blue
white
Array: [red, blue, white]
Sorted Array: [blue, red, white]
mca@HP-Z238:~/abhirami/java/c2$
```

**7. Search an element in an array.**

**Program:**

```
import java.util.Scanner;
public class ArraySearch {
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print(" Abhirami Vinod\n 23MCA002\n 26-FEB-2024\n");
      System.out.print("Enter the size of the array: ");
      int size = scanner.nextInt();
      int[] array = new int[size];
      System.out.println("Enter the elements of the array:");
      for (int i = 0; i < size; i++)
      {
         System.out.print("Enter element " + (i + 1) + ": ");
         array[i] = scanner.nextInt();
      }
      System.out.print("Enter the element to search: ");
      int searchElement = scanner.nextInt();
      boolean found = false;
      for (int i = 0; i < size; i++) {
         if (array[i] == searchElement)
         {
            found = true;
            break;
         }
      }
      if (found)
      {
         System.out.println("Element " + searchElement + " found in the array.");
      } else {
         System.out.println("Element " + searchElement + " not found in the array.");
      }
      scanner.close();
   }
}
```

**Output:**

```
mca@HP-Z238:~/abhirami/java/c2$ javac ArraySearch.java
mca@HP-Z238:~/abhirami/java/c2$ java ArraySearch
 Abhirami Vinod
 23MCA002
 26-FEB-2024
Enter the size of the array: 4
Enter the elements of the array:
Enter element 1: 5
Enter element 2: 2
Enter element 3: 7
Enter element 4: 1
Enter the element to search: 7
Element 7 found in the array.
mca@HP-Z238:~/abhirami/java/c2$ java ArraySearch
 Abhirami Vinod
 23MCA002
 26-FEB-2024
Enter the size of the array: 3
Enter the elements of the array:
Enter element 1: 3
Enter element 2: 6
Enter element 3: 8
Enter the element to search: 9
Element 9 not found in the array.
mca@HP-Z238:~/abhirami/java/c2$
```

## 8. Perform string manipulations

**Program:**

```
import java.util.Scanner;
public class StringManip{
public static void main(String[] args) {
System.out.println("Abhirami Vinod \n 23MCA002 \n 26-FEB-2024");
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:**

```
mca@HP-Z238:~/abhirami/java/c2$ javac StringManip.java
mca@HP-Z238:~/abhirami/java/c2$ java StringManip
Abhirami Vinod
 23MCA002
 26-FEB-2024
Enter The String
Collaborate
Length of String = 11
Character at First position = o
String Contains 'Col' sequence :true
String ends with e : true
Replace'col' with 'kol' : kollaborate
LOWERCASE : collaborate
UPPERCASE : COLLABORATE
mca@HP-Z238:~/abhirami/java/c2$
```

**9. 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.**

**Program:**

```
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("Abhirami Vinod \n 23MCA002 \n 18-March-2024");
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:**

```
Abhirami Vinod
 23MCA002
 18-March-2024

Enter the No. of Employee's
3

Enter the Employee details
Employee number :
1
Name :
abhirami
Salary :
50000

Enter the Employee details
Employee number :
2
Name :
abin
Salary :
45000

Enter the Employee details
Employee number :
3
Name :
afna
Salary :
45000

Informations of all the employee's
Empolyee No :1
Name :abhirami
Salary Amount50000.0

Empolyee No :2
Name :abin
Salary Amount45000.0

Empolyee No :3
Name :afna
Salary Amount45000.0


Enter the Employee Number to get details of a employee
```