

6) Program to Sort strings

```
import java.util.Scanner;
import java.util.Arrays;
public class sortstr{
    public static void main(String[] args){
        System.out.println("Arjun kamalasanan\n rollno: 23mca007\nDate: 26-feb-2024\n");
        int n;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter number of strings:\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("\nArray: " + Arrays.toString(strings));
        Arrays.sort(strings);
        System.out.println("Sorted Array: " + Arrays.toString(strings));
    }
}
```

Output:

```
mca@Z238-UL:~/arjun$ javac SortString.java
mca@Z238-UL:~/arjun$ java SortString
Arjun kamalasanan
Rollno:19
26-feb-2024
Enter the size of the array:
5
Enter the strings:
arjun
aslam
ashy
beema
ashwin
Sorted strings:

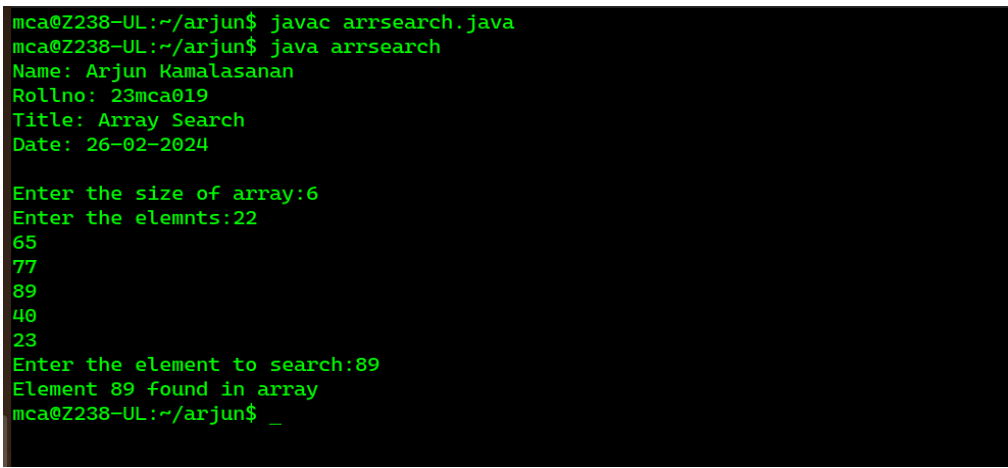
arjun
ashwin
ashy
aslam
beema
mca@Z238-UL:~/arjun$ _
```

7) Search an element in an array.

```
import java.util.Scanner;

public class arrsearch{
public static void main(String[] args){
System.out.println("Arjun Kamalasanan\n23MCA019\ n26-feb-2024\n");
Scanner scanner = new Scanner(System.in);
System.out.print("Enter the size of array:");
int size=scanner.nextInt();
int[] array= new int[size];
System.out.print("Enter the elemnts:");
for(int i=0;i<size;i++){
array[i]=scanner.nextInt();
}
System.out.print("Enter the element to search:");
int ele=scanner.nextInt();
boolean found=false;
for(int i=0;i<size;i++){
if(array[i]==ele){
found=true;
break;
}}

if (found){
System.out.println("Element "+ele+" found in array");
}else{
System.out.println("Element "+ele+" not found in array");
}
scanner.close();
}}
```

Output:

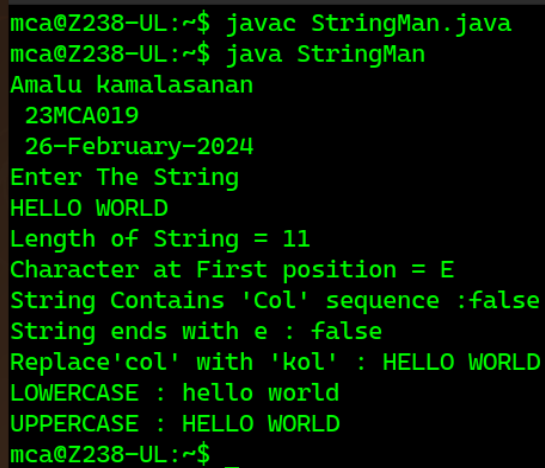
```
mca@Z238-UL:~/arjun$ javac arrsearch.java
mca@Z238-UL:~/arjun$ java arrsearch
Name: Arjun Kamalasanan
Rollno: 23mca019
Title: Array Search
Date: 26-02-2024

Enter the size of array:6
Enter the elemnts:22
65
77
89
40
23
Enter the element to search:89
Element 89 found in array
mca@Z238-UL:~/arjun$ _
```

8) Perform string manipulations

```
import java.util.Scanner;
public class string{
public static void main(String[] args) {
    System.out.println("Arjun Kamalasanan\n23MCA019 \n26-februbary-
    2024\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(0));
    System.out.println("String Contains 'ly' sequence :"+str1.contains("ly"));
    System.out.println("String ends with e : "+str1.endsWith("e"));
    System.out.println("Replace 'ly' with 'ing' : "+str1.replaceAll("ly","ing"));
    System.out.println("LOWERCASE : "+str1.toLowerCase());
    System.out.println("UPPERCASE : "+str1.toUpperCase());
    }
}
```

Output:



```
mca@Z238-UL:~$ javac StringMan.java
mca@Z238-UL:~$ java StringMan
Amalu kamalasanan
23MCA019
26-February-2024
Enter The String
HELLO WORLD
Length of String = 11
Character at First position = E
String Contains 'Col' sequence :false
String ends with e : false
Replace'col' with 'kol' : HELLO WORLD
LOWERCASE : hello world
UPPERCASE : HELLO WORLD
mca@Z238-UL:~$ _
```

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.

```
import java.util.Scanner;
public class employee{
    int eno;
    String ename;
    double salary;
    public void getdetails(){
        System.out.println("\nEnter the employees details:");
        Scanner sc=new Scanner(System.in);
        System.out.println("Employee no:");
        eno=sc.nextInt();
        System.out.println("Name:");
        sc.nextLine();
        ename=sc.nextLine();
        System.out.println("Salary:");
        salary=sc.nextInt();
    }
    void display(){
        System.out.println("\nEmp No: " + eno);
        System.out.println("Emp Name: " + ename);
        System.out.println("Salary: " + salary);
    }
    public static void main(String[] args){
        System.out.println("Arjun Kamalasanan\n 23MCA019\n 26-Febubary-2024\n");
        System.out.println("Enter the no of employees:");
        Scanner sc1=new Scanner(System.in);
        int num=sc1.nextInt();
        employee a[]=new employee[num];
        for(int i=0;i<num;i++){
            a[i]=new employee();
            a[i].getdetails();
        }
        System.out.println("Information of all employees: ");
        for(int i=0;i<num;i++){
            a[i].display();
        }
        boolean state=false;
        System.out.println("\nEnter the employee no to get details: ");
        int num2=sc1.nextInt();
        for(int i=0;i<num;i++){
```

```
        if(a[i].eno==num2){
            System.out.println("\nEmployee details:");
            a[i].display();
        }
    }
}
```

Output:

```
mca@Z238-UL:~/arjun$ java Employee
Arjun Kamalasanan
23MCA019
26-February-2024
```

```
Enter the No. of Employee's
2
```

```
Enter the Employee details
Employee number :
1
Name :
arjun
Salary :
654345
```

```
Enter the Employee details
Employee number :
2
Name :
amal
Salary :
345654
```

```
Informations of all the employee's
Empolyee No :1
Name :arjun
Salary Amount654345.0
```

```
Empolyee No :2
Name :amal
Salary Amount345654.0
```

```
Enter the Employee Number to get details of a employee
2
```

```
Employee details:
Empolyee No :2
Name :amal
Salary Amount345654.0
```

```
mca@Z238-UL:~/arjun$ _
```