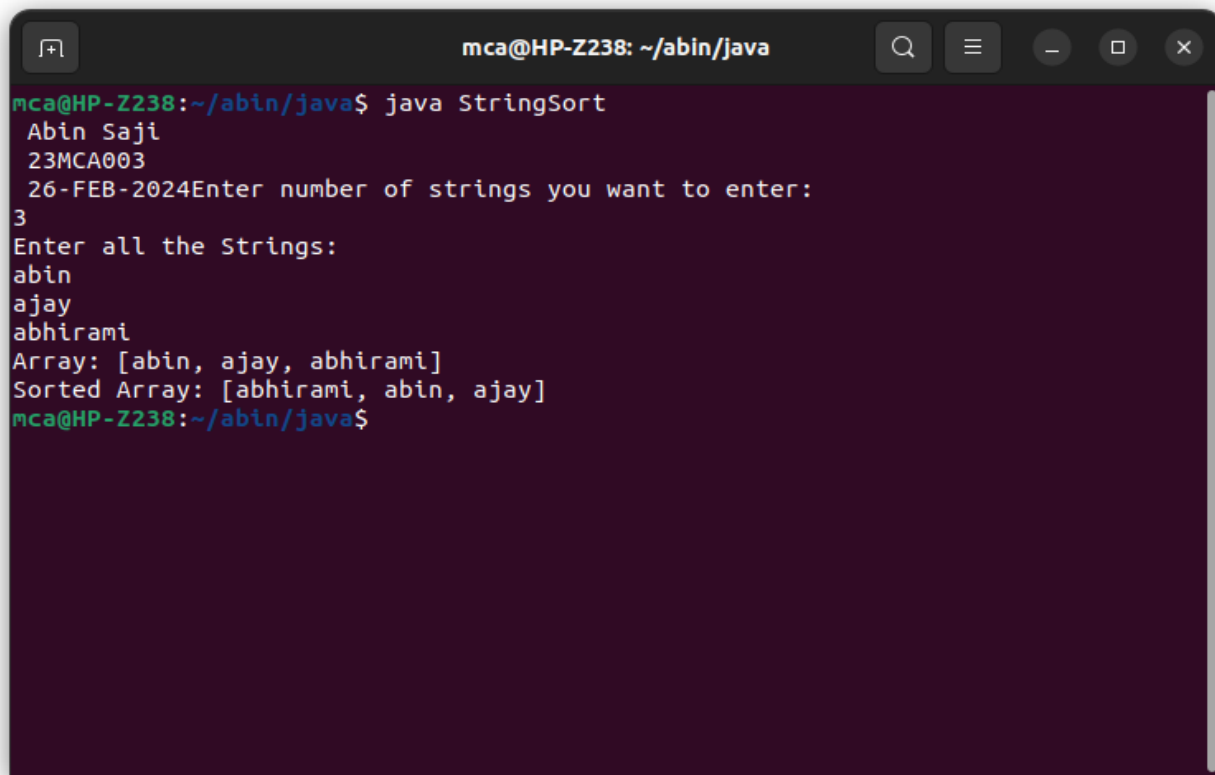


**6. Program to Sort strings****Program:**

```
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(" Abin Saji\n 23MCA003\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:**A terminal window titled 'mca@HP-Z238: ~/abin/java' with standard window controls. The terminal shows the execution of a Java program named 'StringSort'. The user enters their name 'Abin Saji', ID '23MCA003', and date '26-FEB-2024'. They are prompted to enter the number of strings, inputting '3'. Then they enter three strings: 'abin', 'ajay', and 'abhirami'. The program outputs the array '[abin, ajay, abhirami]' and the sorted array '[abhirami, abin, ajay]'.

```
mca@HP-Z238:~/abin/java$ java StringSort
Abin Saji
23MCA003
26-FEB-2024Enter number of strings you want to enter:
3
Enter all the Strings:
abin
ajay
abhirami
Array: [abin, ajay, abhirami]
Sorted Array: [abhirami, abin, ajay]
mca@HP-Z238:~/abin/java$
```

**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(" Abin Saji \n 23MCA003\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:**

```
Abin Saji  
23MCA003  
26-FEB-2024  
Enter the size of the array: 2  
Enter the elements of the array:  
Enter element 1: 3  
Enter element 2: 4  
Enter the element to search: 5  
Element 5 not found in the array.
```

## 8. Perform string manipulations

### Program:

```
import java.util.Scanner;

public class StringManip{

public static void main(String[] args) {

System.out.println("Abin Saji \n 23MCA003 \n 14-March-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"));

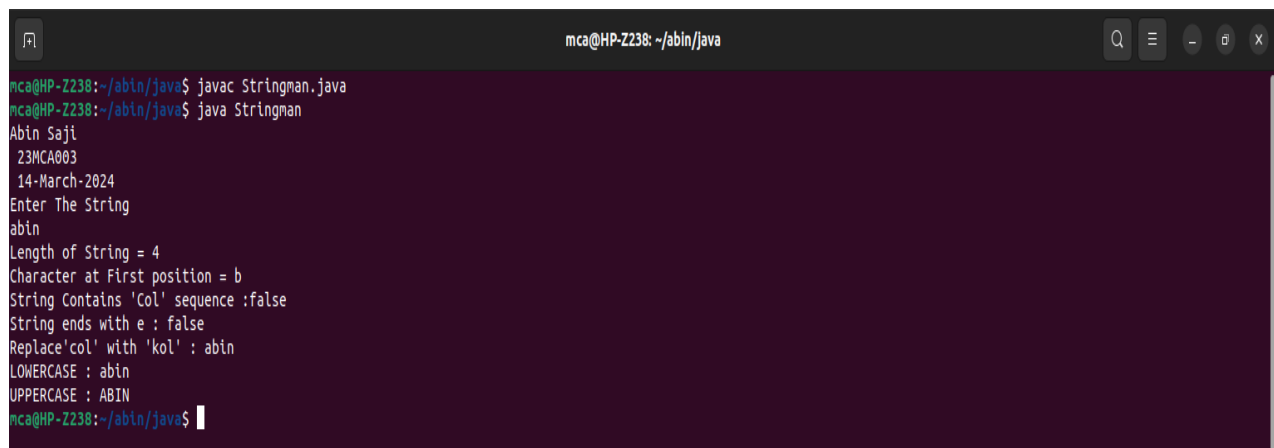
System.out.println("LOWERCASE : "+str1.toLowerCase());

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

}

}
```

### Output:



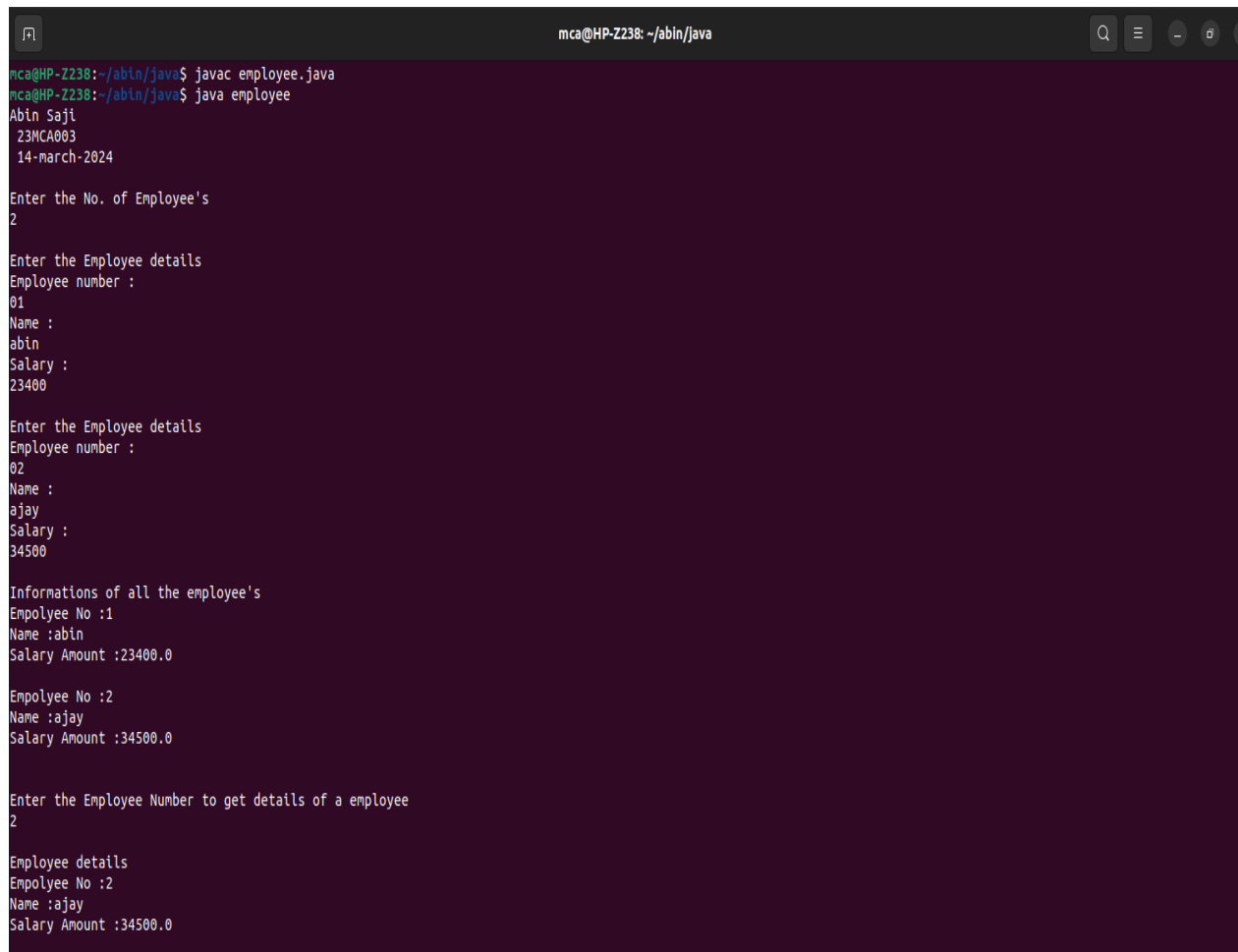
```
mca@HP-Z238: ~/abin/java
mca@HP-Z238:~/abin/java$ javac Stringman.java
mca@HP-Z238:~/abin/java$ java Stringman
Abin Saji
23MCA003
14-March-2024
Enter The String
abin
Length of String = 4
Character at First position = b
String Contains 'Col' sequence :false
String ends with e : false
Replace'col' with 'kol' : abin
LOWERCASE : abin
UPPERCASE : ABIN
mca@HP-Z238:~/abin/java$
```

**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("Abin Saji \n 23MCA003\n 14-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:**

```
mca@HP-Z238:~/abin/java$ javac employee.java
mca@HP-Z238:~/abin/java$ java employee
Abin Saji
23MCA003
14-march-2024

Enter the No. of Employee's
2

Enter the Employee details
Employee number :
01
Name :
abin
Salary :
23400

Enter the Employee details
Employee number :
02
Name :
ajay
Salary :
34500

Informations of all the employee's
Empolyee No :1
Name :abin
Salary Amount :23400.0

Empolyee No :2
Name :ajay
Salary Amount :34500.0

Enter the Employee Number to get details of a employee
2

Employee details
Empolyee No :2
Name :ajay
Salary Amount :34500.0
```