## **Lab CAT**

Name: Sanjoi Sethi

Reg. No.: 18BCE2261

Course Name: Java Programming

Course Code: CSE1007

Slot: L9+L10

## 12-10-2021:

1) Write a Java program to create a jagged array and perform the following.

Ruhan Lakshan

Thejaswini Tanishwar Ramya

**Aruna** 

- (i) Reverse each position string.
- (ii) Display the string in each row having greatest length.

## 1) Program:

```
public static void findmaxlength(String[][] arr)
    System.out.println();
    System.out.println("Max lengths");
    for(int i=0;i<arr.length;i++)</pre>
        String max=arr[i][0];
        int maxlen=max.length();
        for(int j=1;j<arr[i].length;j++)</pre>
            if (arr[i][j].length()>maxlen)
                maxlen=arr[i][j].length();
        System.out.println(max);
public static void main(String[] args)
    Scanner sc=new Scanner(System.in);
    System.out.println("Sanjoi Sethi (18BCE2261)");
    System.out.println("Enter the no of rows:");
    int n=sc.nextInt();
    String[][] arr=new String[n][];
String[][] rev=new String[n][];
        System.out.println("Enter the no of columns for "+(i)+" row:");
        int m=sc.nextInt();
        arr[i]=new String[m];
        rev[i]=new String[m];
    sc.nextLine();
        for(int j=0;j<arr[i].length;j++)</pre>
            System.out.println("Enter row "+(i+1)+" and column
            rev[i][j]=arr[i][j];
    System.out.println();
    System.out.println("Original array:");
    display(arr);
    reverse (rev);
    System.out.println();
    System.out.println("After reversing:");
    display(rev);
    findmaxlength(arr);
```

}

```
Output for Sample Input:
```

```
C:\Users\SanJoi\Java Programming Lab>java LabCat18BCE2261
Sanjoi Sethi (18BCE2261)
Enter the no of rows:
Enter the no of columns for 0 row:
Enter the no of columns for 1 row:
Enter the no of columns for 2 row:
Enter row 1 and column 1 value:
Ruhan
Enter row 1 and column 2 value:
Lakshan
Enter row 2 and column 1 value:
Thejaswini
Enter row 2 and column 2 value:
Tanishwar
Enter row 2 and column 3 value:
Ramya
Enter row 3 and column 1 value:
Aruna
Original array:
Ruhan Lakshan
Thejaswini Tanishwar Ramya
Aruna
After reversing:
nahuR nahskaL
iniwsajehT rawhsinaT aymaR
anurA
Max lengths
Lakshan
Thejaswini
Aruna
```

## **Output for other Input:**

```
C:\Users\SanJoi\Java Programming Lab>javac LabCat18BCE2261.java
C:\Users\SanJoi\Java Programming Lab>java LabCat18BCE2261
Sanjoi Sethi (18BCE2261)
Enter the no of rows:
Enter the no of columns for 0 row:
Enter the no of columns for 1 row:
Enter the no of columns for 2 row:
Enter row 1 and column 1 value:
Sanjoi
Enter row 1 and column 2 value:
Kabir
Enter row 2 and column 1 value:
Riya
Enter row 2 and column 2 value:
Shivansh
Enter row 2 and column 3 value:
Anant
Enter row 3 and column 1 value:
Yash
Enter row 3 and column 2 value:
Sakshi
Original array:
Sanjoi Kabir
Riya Shivansh Anant
Yash Sakshi
After reversing:
iojnaS ribaK
ayiR hsnavihS tnanA
hsaY ihskaS
Max lengths
Sanjoi
Shivansh
Sakshi
```