Code for lab cat question no1 :

```java
import java.lang.String;

class Main {
    static void sort(String arr[][]) {
        for (int i = 0; i < arr.length; i++) {
            for (int j = 0; j < arr[i].length; j++) {
                StringBuilder sb = new StringBuilder(arr[i][j]);
                sb.reverse();
                arr[i][j] = sb.toString();
            }

        }

    }

    public static void main(String[] args) {
        String arr[][] = new String[3][];

        arr[0] = new String[] { "Ruhan", "Lakshan" };
        arr[1] = new String[] { "Thejaswini", "Tanishwar", "Ramya" };
        arr[2] = new String[] { "Aruna" };
        System.out.println("Contents of 2D Jagged Array before reversing");
        for (int i = 0; i < arr.length; i++) {
            for (int j = 0; j < arr[i].length; j++)
                System.out.print(arr[i][j] + " ");
            System.out.println();
        }
        sort(arr);
        // Displaying the values of 2D Jagged array
        System.out.println("Contents of 2D Jagged Array after reversing the each
position");
        for (int i = 0; i < arr.length; i++) {
            for (int j = 0; j < arr[i].length; j++)
                System.out.print(arr[i][j] + " ");
            System.out.println();
        }

        for (int i = 0; i < arr.length; i++) {
            int a = 0, b = 0, n = 0;
            for (int j = 0; j < arr[i].length - 1; j++) {
```

```
                a = arr[i][j].length();
                b = arr[i][j + 1].length();
                if (a > b) {
                    n = j;
                }
                System.out.println("the greatest length of: " + (i + 1) + "th con
tents is: " + a + " of " + arr[i][n]);
            }
        }
    }
}
```

Output:

```
Contents of 2D Jagged Array before reversing
Ruhan Lakshan
Thejaswini Tanishwar Ramya
Aruna
Contents of 2D Jagged Array after reversing the each position
nahuR nahskaL
iniwsajehT rawhsinaT aymaR
anurA
the greatest length of: 1th contents is: 5 of nahuR
the greatest length of: 2th contents is: 10 of iniwsajehT
the greatest length of: 2th contents is: 9 of iniwsajehT
PS D:\VIT\class room\3rd Sem\JAVA\lab> 
```