

CSE 1007
JAVA LAB -10
-Aishwarya S 19BCE1709

IDE USED : ECLIPSE

CODE:

```
package jlabs;
import javafx.application.Application;
import javafx.event.EventHandler;
import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.Scene;
import javafx.scene.control.TextField;
import javafx.scene.input.KeyCode;
import javafx.scene.input.KeyEvent;
import javafx.scene.layout.Background;
import javafx.scene.layout.BackgroundFill;
import javafx.scene.layout.CornerRadii;
import javafx.scene.layout.GridPane;
import javafx.scene.text.Text;
import javafx.stage.Stage;
import javafx.scene.paint.Color;
```

```
public class javalab10 extends Application {
    public static void main(String[] args) {
        launch(args);
    }
```

```
@Override
public void start(Stage stage) {
```

```
String str[] = new String[26];
TextField[] txf = new TextField[26];
```

```
for(int i=65;i<=90;i++)
{ str[i-65]=Character.toString((char)i);}
```

```
GridPane gridPane = new GridPane();
TextField tf = new TextField();
tf.setText("Enter your string");
//alternate method
/*tf.setOnKeyPressed(new EventHandler<KeyEvent>() {
    @Override
    public void handle(KeyEvent ke) {
        if (ke.getCode().equals(KeyCode.ENTER)) {
```

```

        int[] arr= new int[26];
        System.out.print(tf.getText());

        char[] chars = tf.getText().replaceAll("[^a-zA-Z0-9]", "").toUpperCase().toCharArray();

        for(char ch: chars)
        {   System.out.print((int)ch);
            arr[(int)ch-65]++;
            txtf[(int)ch-65].setText(Integer.toString(arr[(int)ch-65]));
        }

    }
}
})*/*
//EVENT LISTENER

tf.textProperty().addListener((observable, oldValue, newValue) -> {
    int[] arr= new int[26];

    char[] chars = newValue.replaceAll("[^a-zA-Z]", "").toUpperCase().toCharArray();

    if(chars.length==0)
    {
        for(int i=0;i<26;i++)
            txtf[i].setText("");

    }
    else
    {
        for(char ch: chars)
        {
            arr[(int)ch-65]++;

            txtf[(int)ch-65].setText(Integer.toString(arr[(int)ch-65]));
        }
    }

});

//Setting size for the pane

gridPane.setMinSize(1000, 1000);

gridPane.setVgap(5);
gridPane.setHgap(5);

```

```

//Setting the Grid alignment
gridPane.setAlignment(Pos.CENTER);
//gridPane.add(new Text("tt"), 0, 0);
tf.setPrefWidth(100);

gridPane.add(tf, 0, 1);
int r=2,c=0,pos=0;

for(String s:str)
{   txtf[pos]= new TextField();

    gridPane.add(new Text(s), c%6, r);
    txtf[pos].setEditable(false);
    gridPane.add(txtf[pos],c%6, r+1);
    pos++;
    c=c+1;
    r=(c/6)*2+2;

}

Scene scene = new Scene(gridPane);
BackgroundFill background_fill = new BackgroundFill(Color.LAVENDERBLUSH,
    CornerRadii.EMPTY, Insets.EMPTY);
Background background = new Background(background_fill);
gridPane.setBackground(background);

stage.setTitle("19BCE1709 AISHWARYA S JAVA LAB 10");

stage.setScene(scene);

stage.show();
}
}

```

OUTPUT SCREENSHOTS:

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Enter your string

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X
Y	Z				

TEST CASE 1:

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AISHWARYA S

A	B	C	D	E	F
3					
G	H	I	J	K	L
	1	1			
M	N	O	P	Q	R
					1
S	T	U	V	W	X
2				1	
Y	Z				
1					

TEST CASE 2:

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VIT CHENNAI

A	B	C	D	E	F
1		1		1	
G	H	I	J	K	L
	1	2			
M	N	O	P	Q	R
	2				
S	T	U	V	W	X
	1		1		
Y	Z				

TEST CASE 3:

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ZELDA

A	B	C	D	E	F
1			1	1	
G	H	I	J	K	L
					1
M	N	O	P	Q	R
S	T	U	V	W	X
Y	Z				
	1				

TEST CASE 4:

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VIT CHENNAI INDIA

A	B	C	D	E	F
2		1	1	1	
G	H	I	J	K	L
	1	4			
M	N	O	P	Q	R
	3				
S	T	U	V	W	X
	1		1		
Y	Z				

TEST CASE 5:

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A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X
Y	Z				