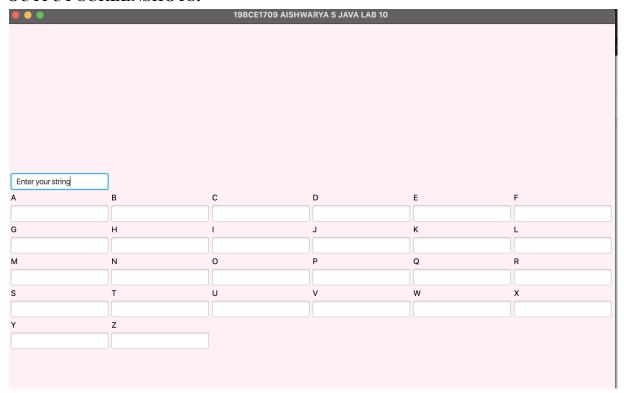
CSE 1007 JAVA LAB -10 -Aishwarya S 19BCE1709

```
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[] txtf = 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)) {
```

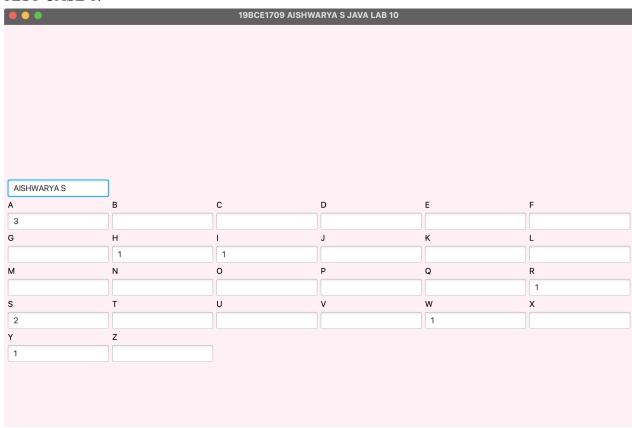
```
int[] arr= new int[26];
                    System.out.print(tf.getText());
                    char[]\ chars = tf.getText().replaceAll("[^a-zA-Z0-9]", "").toUpperCase().toCharArray();
                    for(char ch: chars)
                    { System.out.print((<u>int</u>)ch);
                      <u>arr[(int)ch-65]++;</u>
                      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 = new Background(background_fill);
   gridPane.setBackground(background);
    stage.setTitle("19BCE1709 AISHWARYA S JAVA LAB 10");
    stage.setScene(scene);
    stage.show();
 }
}
```

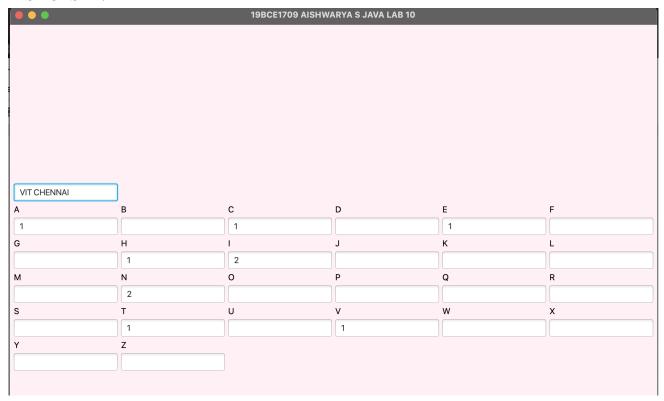
OUTPUT SCREENSHOTS:



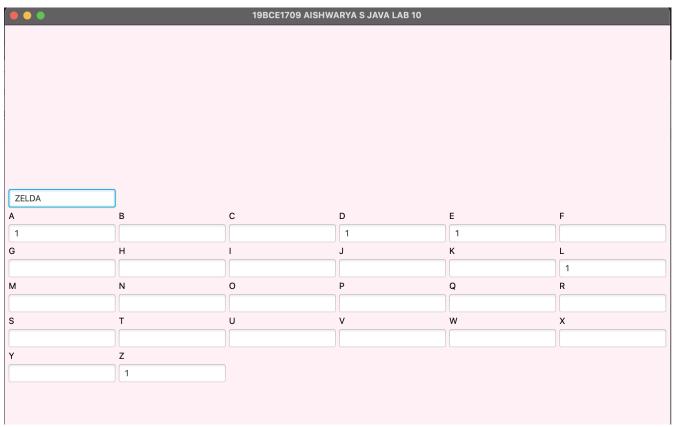
TEST CASE 1:



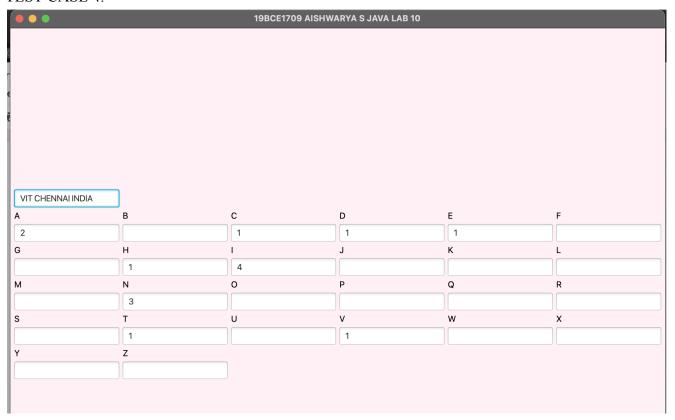
TEST CASE 2:



TEST CASE 3:



TEST CASE 4:



TEST CASE 5:

