

Git-repo link: <https://github.com/Bishnupkl/fpp-assignment06>

Task A:

- Startup

The screenshot shows the 'Metric Conversion Assistant' application window. It has a blue title bar and a light gray background. The window is titled 'Group5'. On the left, there are four input fields: 'Mile:', 'Pound:', 'Gallon:', and 'Fahrenheit:'. Each field has a text input box and a numeric value to its right. The values are: Mile: 0.00, Pound: 0.00, Gallon: 0.00, and Fahrenheit: 0.00. On the right, there are four input fields: 'Kilometer:', 'Kilogram:', 'Liters:', and 'Centigrade:'. Each field has a text input box and a numeric value to its right. The values are: Kilometer: 0.0, Kilogram: 0.0, Liters: 0.0, and Centigrade: -17.77777777777778. At the bottom center, there is a 'Convert' button.

- Constant Declaration

```
private final double MILE_TO_KILOMETER = 1.609344; 2 usages
private final double POUND_TO_KILOGRAM = 0.453592; 2 usages
private final double GALLON_TO_LITER = 3.78541; 2 usages
private final double FAHRENHEIT_TO_CENTIGRADE = 32; 2 usages
```

- Conversion Value

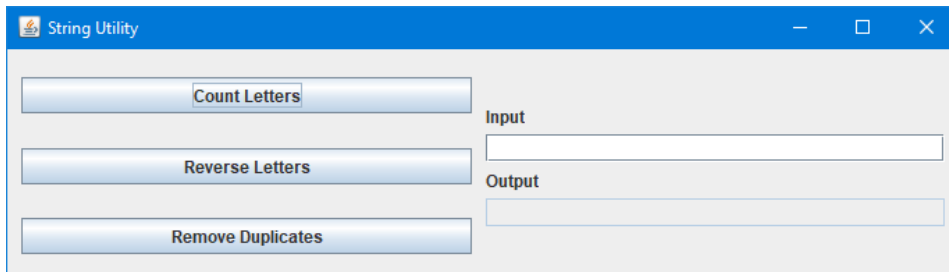
The screenshot shows the 'Metric Conversion Assistant' application window. It has a blue title bar and a light gray background. The window is titled 'Group5'. On the left, there are four input fields: 'Mile:', 'Pound:', 'Gallon:', and 'Fahrenheit:'. Each field has a text input box and a numeric value to its right. The values are: Mile: 12.00, Pound: 14.00, Gallon: 58.00, and Fahrenheit: 32.00. On the right, there are four input fields: 'Kilometer:', 'Kilogram:', 'Liters:', and 'Centigrade:'. Each field has a text input box and a numeric value to its right. The values are: Kilometer: 19.312128, Kilogram: 6.350288, Liters: 219.553780000000002, and Centigrade: 0.0. At the bottom center, there is a 'Convert' button.

- Exception Handler

The screenshot shows the 'Metric Conversion Assistant' application window. It has a blue title bar and a light gray background. The window is titled 'Group5'. On the left, there are four input fields: 'Mile:', 'Pound:', 'Gallon:', and 'Fahrenheit:'. Each field has a text input box and a numeric value to its right. The values are: Mile: A0.00, Pound: 0.00, Gallon: 0.00, and Fahrenheit: 0.00. On the right, there are four input fields: 'Kilometer:', 'Kilogram:', 'Liters:', and 'Centigrade:'. Each field has a text input box and a numeric value to its right. The values are: Kilometer: 0.0, Kilogram: 0.0, Liters: 0.0, and Centigrade: -17.77777777777778. At the bottom center, there is a 'Convert' button. A dialog box is open in the center of the window. The dialog box has a title bar that says 'NumberFormatException'. It has a red 'X' icon and the text 'java.lang.NumberFormatException: For input string: "A0.00"'. There is an 'OK' button at the bottom of the dialog box.

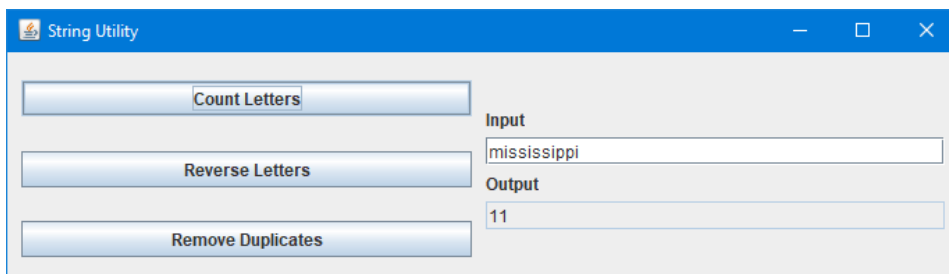
Tack B:

- Startup



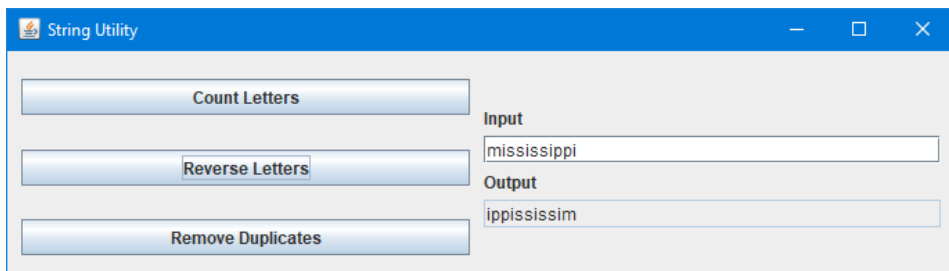
The screenshot shows the 'String Utility' application window. On the left, there are three buttons: 'Count Letters', 'Reverse Letters', and 'Remove Duplicates'. On the right, there are two text input fields labeled 'Input' and 'Output'. Both fields are currently empty.

- Count Letters



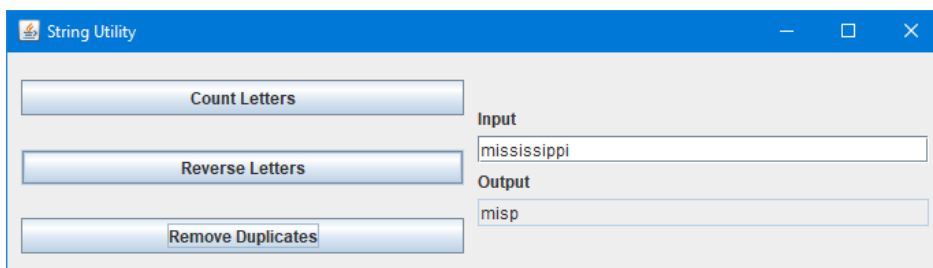
The screenshot shows the 'String Utility' application window. The 'Count Letters' button is selected. The 'Input' field contains the text 'mississippi'. The 'Output' field contains the number '11'.

- Reverse Letters



The screenshot shows the 'String Utility' application window. The 'Reverse Letters' button is selected. The 'Input' field contains the text 'mississippi'. The 'Output' field contains the text 'ippississim'.

- Remove Duplicates



The screenshot shows the 'String Utility' application window. The 'Remove Duplicates' button is selected. The 'Input' field contains the text 'mississippi'. The 'Output' field contains the text 'misp'.