AS A User

**I WANT** a program that allows a User to either input a sentence using keyboard input, or a file input, or a demo

**SO THAT** the program will count the Letter Frequencies of the sentence.

**As A User** *I want to launch the program and choose a data input option*

**GIVEN** a user launches the program

**WHEN** user launches program

**THEN** user should be presented with "Welcome to my Java Assignment"

**AND** it should print out "Pick an option, Keyboard, Demo, FileInput, Exit"

***As A User*** *I want to pick Keyboard Option*

**GIVEN** user has launched the program and been presented to choose an option

**WHEN** the user picks Keyboard

**THEN** the user will be prompted to enter a sentence

**GIVEN** the user has chosen a sentence

**WHEN** the user enters a sentence and clicks enter

**THEN** it should print out "Pick an option, bar chart or table"

***As A User*** *I want to pick Demo Option*

**GIVEN** the user has launched the program and been presented to choose an option

**WHEN** the user picks Demo

**THEN** the user will be presented with a hard code sentence to be used as a demo

**AND** user can choose how they want the data to be displayed

***AS A User*** *I want to pick FileInput Option*

**GIVEN** the user has chosen the file input option

**WHEN** the users enter the file name and clicks enter

**THEN** it should print out "Pick an option, bar chart or table"

***AS A User*** *I want to see a bar chart of data*

**GIVEN** the user has provided the data to be analysed

**WHEN** the user picks Bar chart

**THEN** the user will be presented with a bar chart

**AND** the bar chart will have characters on the Y Axis

**AND** the percentage will print as a bar from left to right (measurement: # = 1%, ## = 2%, etc.)

**AND** relative frequency percentage on the X Axis

***AS A User*** *I want to see a table of data*

**GIVEN** the user has provided the data to be analysed

**WHEN** the user picks table

**THEN** it should print out a table

**AND** the table will have character column with a list from my characters array

**AND** a frequency column with the frequency my characters appear in the text

**AND** a relative frequency column with the relative frequency my characters appear in the text

**AND** a header for the table using pipes and dashes

***As A User*** *I want to see a word count table*

**GIVEN** I have text to analyse

**WHEN** I choose word count table

**THEN** the table should be displayed

**AND** it has a header with the heading word count, character count

***As A User*** *I want to re submit an input option if it fails*

**GIVEN** the user wants to enter in a data input option

**WHEN** the input is entered incorrectly

**THEN** I can re submit my chosen data option

***As A User*** *I want to choose to another Data Analysis Display after one has just displayed*

**WHEN** Data analysis has just been displayed

**THEN** I can enter another option to display the same data