**State of the Union Speeches**

***Project Design***

**Main Functions:**

* **wordCount() 🡪 Function to count the total word in a text**
* **avr\_word () 🡪 Function to find the average word length**
* **avr\_sentence ()🡪 Function to find the average sentence length**
* **freq\_words() 🡪 Function to find the 15 most frequently used words**
* **longest\_words() 🡪 Function to find the top 10 longest words**
* **process\_file() 🡪 Function to process a file txt**
* Print Welcome
* While True loop to read file
  + Ask user to enter name of file
  + Process file function
  + Print readability score
  + If user inputs done, end while loop
* End While-loop
* If user inputs done, call the functions
* **wordCount( )**
* **avr\_word ( )**
* **avr\_sentence ( )**
* **freq\_words( )**
* **longest\_words( )**
* **process\_file( )**
* **Print results**

***Early Submission Current Progress:***

I have completed writing the main part of the program like main functions and while loops. The user interface for this program was easy to code at first hand by only using print(), and input(), and while loops, yet the primary functions were the challenges one because they are actually the main algorithm that make this program work. The word count function was the hardest one but I was able to make it done.

***Assumptions***

* The user will choose a file for displaying it. If the user enters a file that is not found. The program will ask the user to re-enter another file.
* Quotes sentences may end a sentence in ( “ ) instead of a period ( . )
* Words may be compound or joined by a dash ( - ) or double dash ( -- )