**SIMPLE PENDULUM**

**A. Simulation Folder**

├── css

├── main.css

└── README.md

├── images

├── js

├── main.js

└── README.md

└── index.html

The styles and functions written in CSS and JavaScript files are documented in the respective README.md file.

**B. Steps to run simulator**

1. Observe the Oscillating pendulum with its weight, animated graph (Amplitude Vs Time) and the resultant calculation produced for the sample input length of 100cm.
2. Change the suspension length of the wire in **VARIABLES** section from 100cm to any available values between 100cm-200cm using incrementing and decrementing button to raise and low the suspension length, to observe change in suspending wire’s length. (This causes the pendulum to stop oscillating)
3. Click on ***“Start”*** button in **CONTROLS** section to start observation with updated values; this updates the graph and result section with the new plot and calculated values
4. Click on ***“Stop”*** button in controls to stop the oscillating pendulum on any instance of time.
5. Repeat the steps from 2-4 to continue the experiment with new observations.

**C. Coding Technologies used for development**

**IDE (Integrated Development Environment)**

1. Visual Studio Code

**Stack**

1. HTML5
2. CSS3
3. JavaScript