Testing

Requirements Reached *It wouldn't let me put it as "everyone with link can view" because of school restrictions* https://docs.google.com/spreadsheets/d/1TN3Z___vwbxFdi7oVup83q5KgA

Testing Video 0 Highlights input error at the end, fixed in final version and for Testing Video 1 (2min)

Testing Video 1 Demonstrates All unique program functions and most repetitions of those functions (4min)

Explanation video 1 Explains key algorithms and such (10min)

Explanation script Walk through of param files Walk through of data files Walk through of subroutines run program and change parameters to rewrite parameters file then view file for exp data to view before running to rewrite, show results are in base SI units

Test script

NEA TEST SCRIPT req5: will be observed throughout testing

- Run program (req1)(req6)
- Quit from menu (req7)
- Run program
- enter random string instead of a valid input (req20)
- Select falling object experiment (req2)
  - selects and continues to next prompt (req3) (req4)
- go back to main menu from experiment (req13)
- navigate through menu to falling object section
- change parameters (req16)
- go to the model view and then replay and then quit the program (req14) (req15) (req17) (req22) (req23) (req24)
- view results table (req18)
- go back to change parameters and enter gibberish (req20)
- quit program (req19)
- Open program
- navigate to the projectile motion section
- run the simulation (req25) (req26)
- replay simulation
- quit simulation
- go back until main menu
- navigate to the slope experiment simulation
- run simulation (req27) (req28)
- replay simulation
- go back to the main menu
- navigate to the collision simulation
- run simulation (req29) (req30)
- quit simulation

- go back
- change parameters to the same speed for both blocks and same mass for both blocks
- go to simulation
- run simulation (req30)
- quit simulation
- quit program