Simulation 3 is to demonstrate the ability to add a time to take a measurement, as well as the ability to abort data collection from the terminal. Periodic measurements are set to 500ms and to run for 60sec (giving me enough to abort before data collection ends). I then specify a measurement to occur at 750ms and the output to be saved to both a .csv and .txt file. This setup can be seen in the Simulation 3 Setup text file.

From the Simulation 3 Terminal text file. It can be seen that I add a measurement to be taken at 12750 using option 5. The way I have the ability to specify a time to perform a measurement implemented, the user is only able to have one time specified at one time. I then abort data collection using operation two and a message saying data collection was aborted is displayed.

The results visable in the .csv and .txt file show that the measurements occur at the specified peiod and at 750ms. Additionally, a measurement occurs at 12750ms. The reason measurements occurred at both the times specified is because I specified the second time (12750ms) after the first (750ms) had already occurred.