

**Instruction of the program for computing the outputs of the modified P2D model**

1. Run the program for computing the outputs of the modified P2D model after running the program for computing the parameters of the modified P2D model.
2. Load the address of the file for storing the values of the parameters of the modified P2D model in and the ordinal number of the chosen column in the file for storing the values of the parameters of the modified P2D model in Line 4-Line 5.
3. Set the values of the parameters of the algorithm for computing the outputs of the modified P2D model in Line 29-Line 34 and the address of the file for storing the computed outputs of the modified P2D model in Line 81.
4. Load the average Li-ion battery load current and instantaneous Li-ion battery load current for computing the outputs of the modified P2D model and the time length of the average Li-ion battery load current, instantaneous Li-ion battery load current and Li-ion battery inter-electrode potential for computing the outputs of the modified P2D model in Line 35-Line 37.