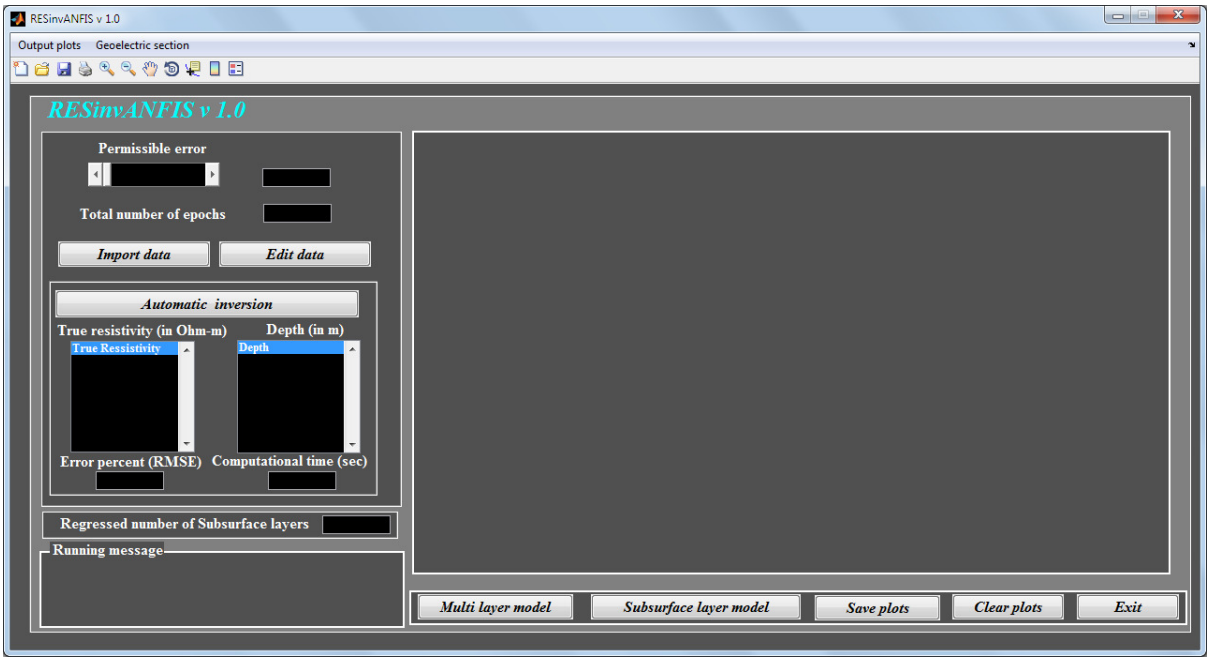
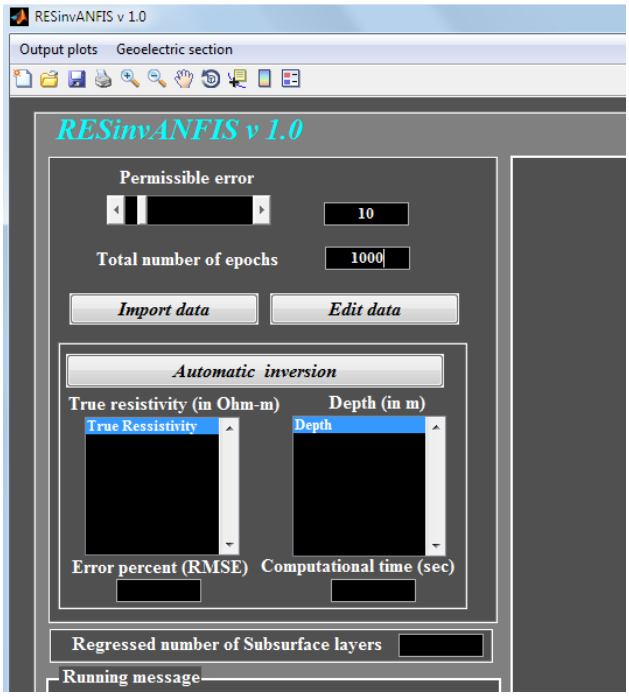
RESinvANFIS v 1.0 –User Manual

Main panel for geoelectrical data inversion using Adaptive Neuro Fuzzy inference System is shown below



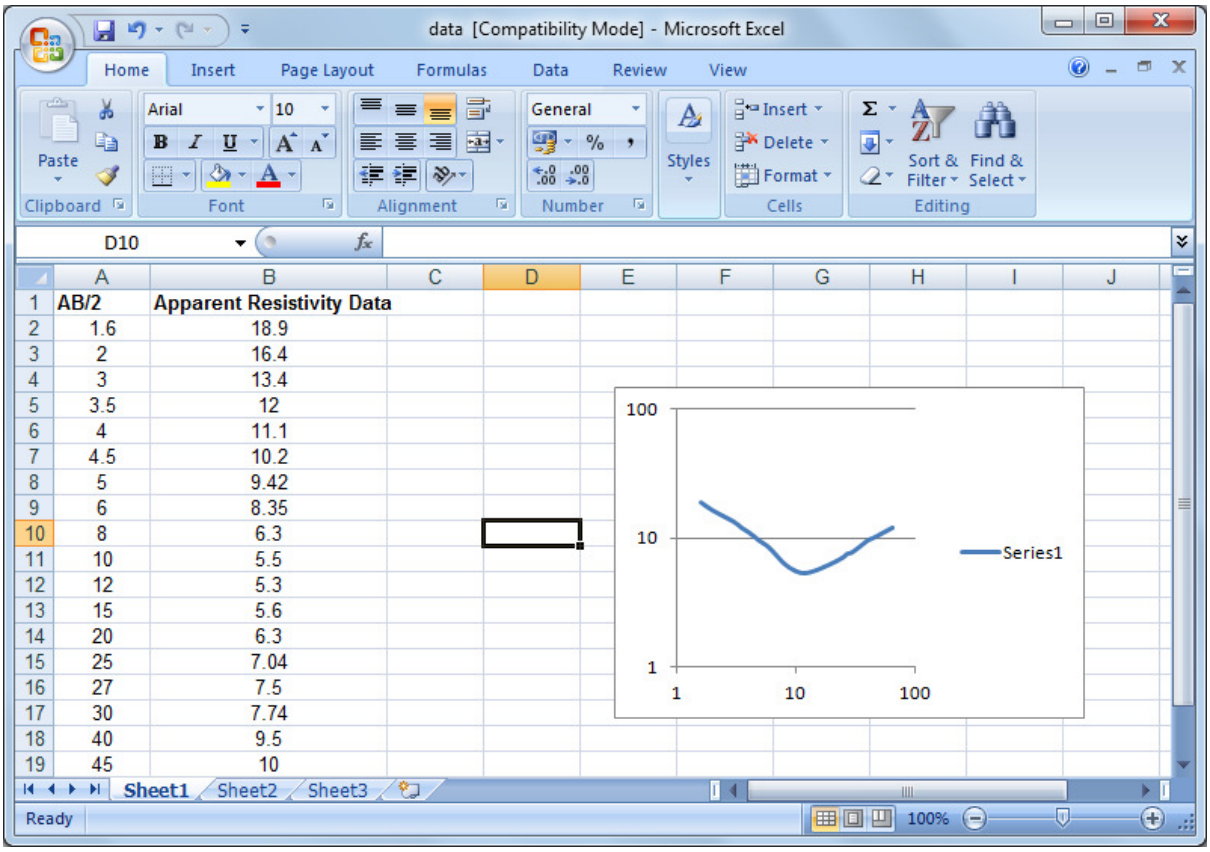
Step 2:

Set the permissible error and total number of epochs in the GUI panel

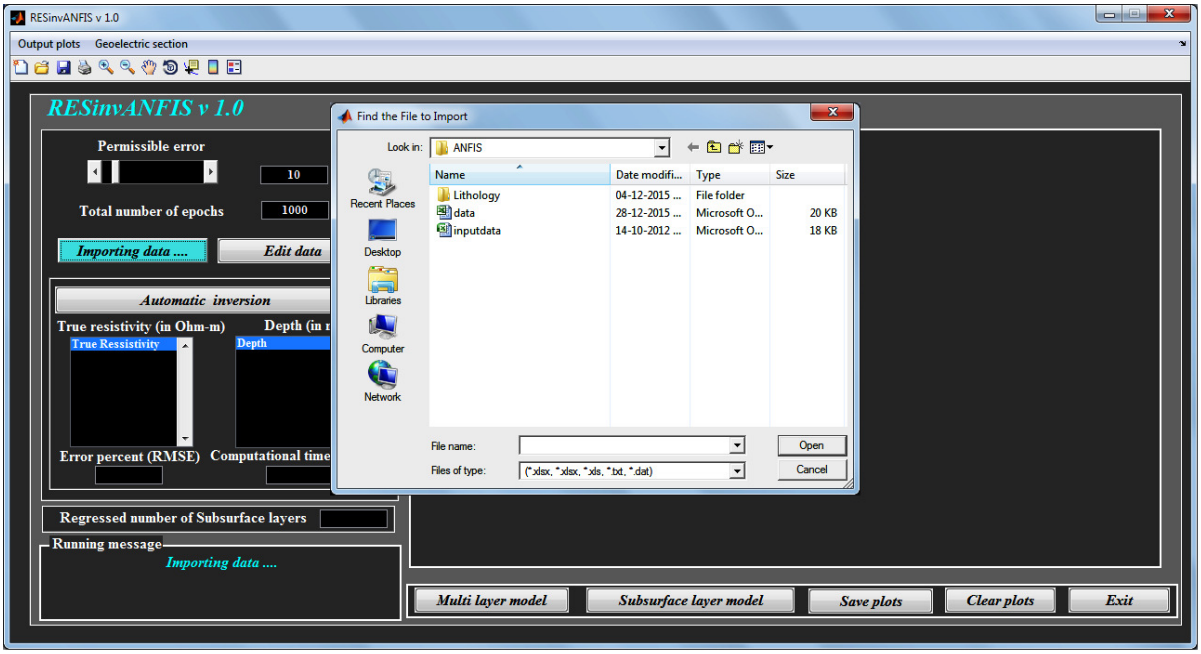


Step 3:

Import data from Microsoft excel which may be Wenner or Schlumberger sounding data of any range (In prior, the user have to store the AB/2 and Apparent resistivity data in Microsoft excel sheet-sheet 1-first two columns) as shown below.

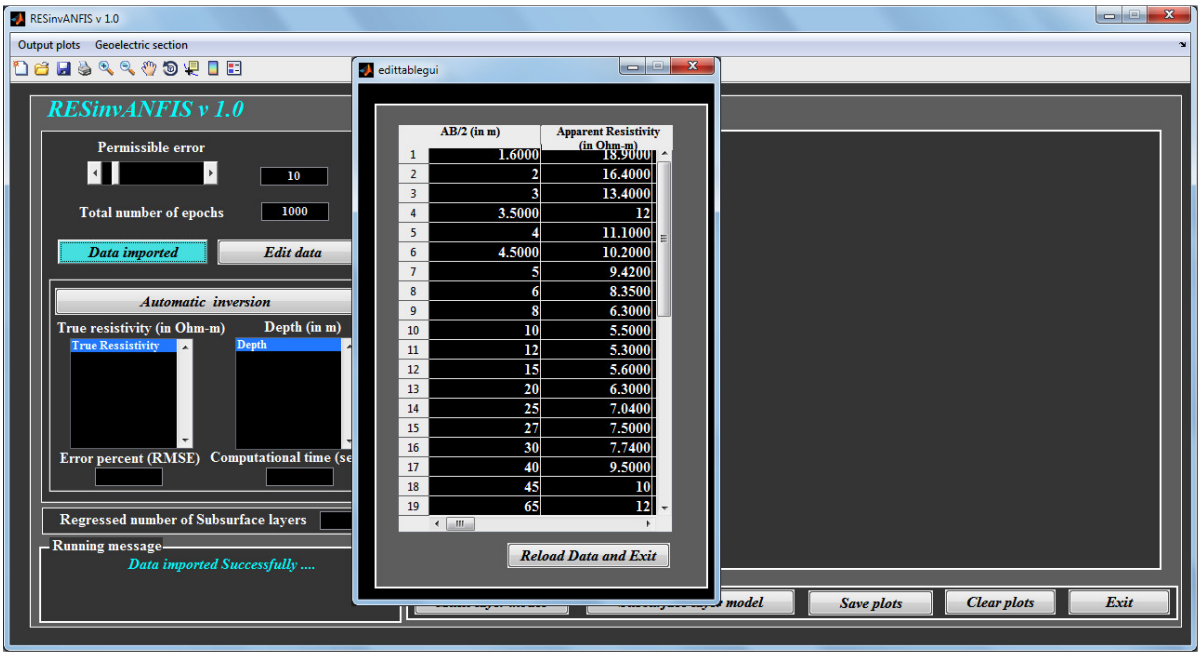


Click the import button in the main GUI panel it will guide to select the Microsoft excel file from respective folder



Step 4:

After importing the data, if the user want to edit some data for manipulation click “edit data “ push button for necessary changes.

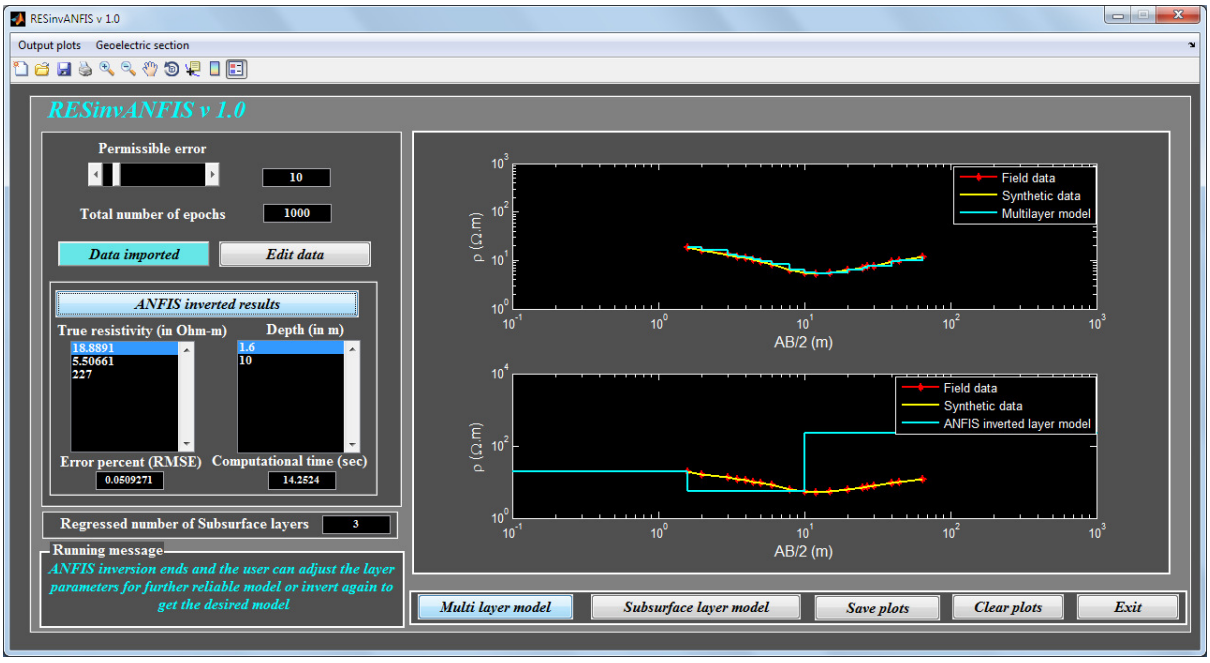


Step 5:

The user can move to the interpretation section after completing all the initialisation steps as mentioned above. Click the “Automatic Inversion” push button for inverting the data using neuro fuzzy technique.

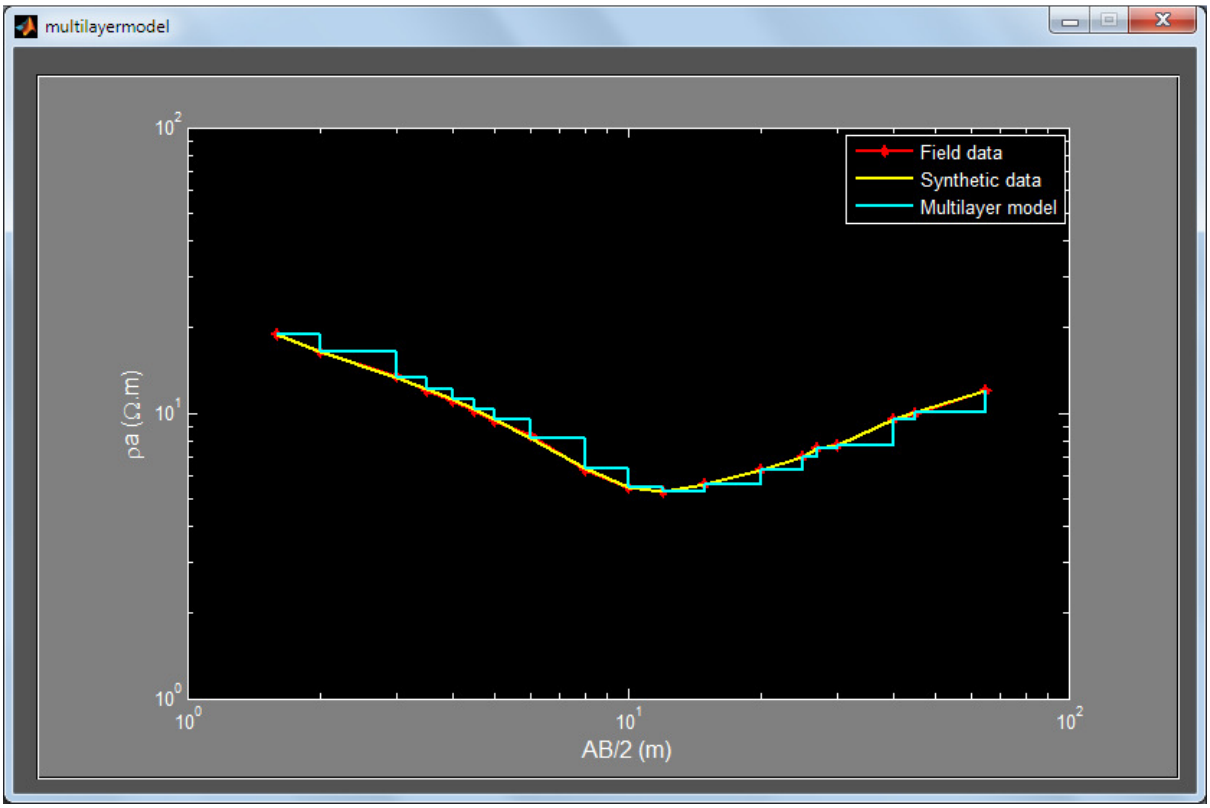
Step 6:

The user can see the running process by viewing the display panel showing “Running message”.



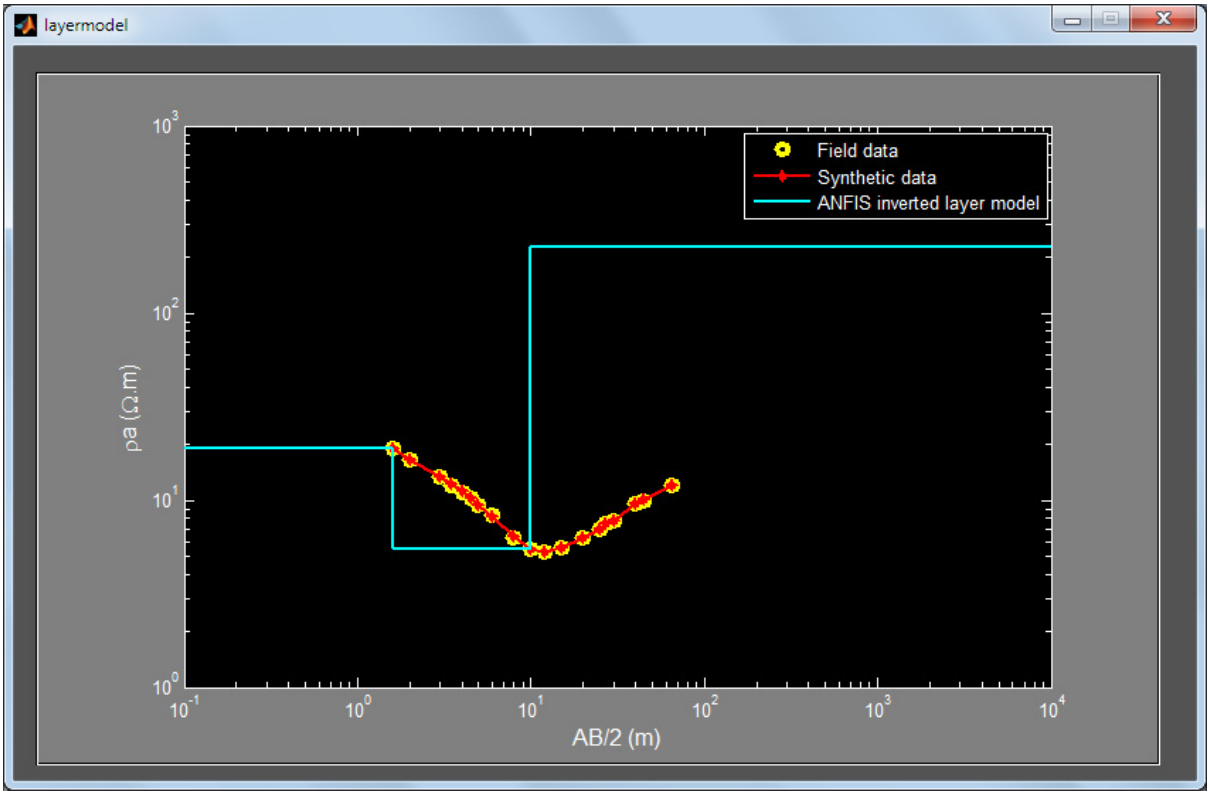
Step 7:

Interpretation ends and the user can view the separate multilayer model graph by clicking the “Multilayer model” push button

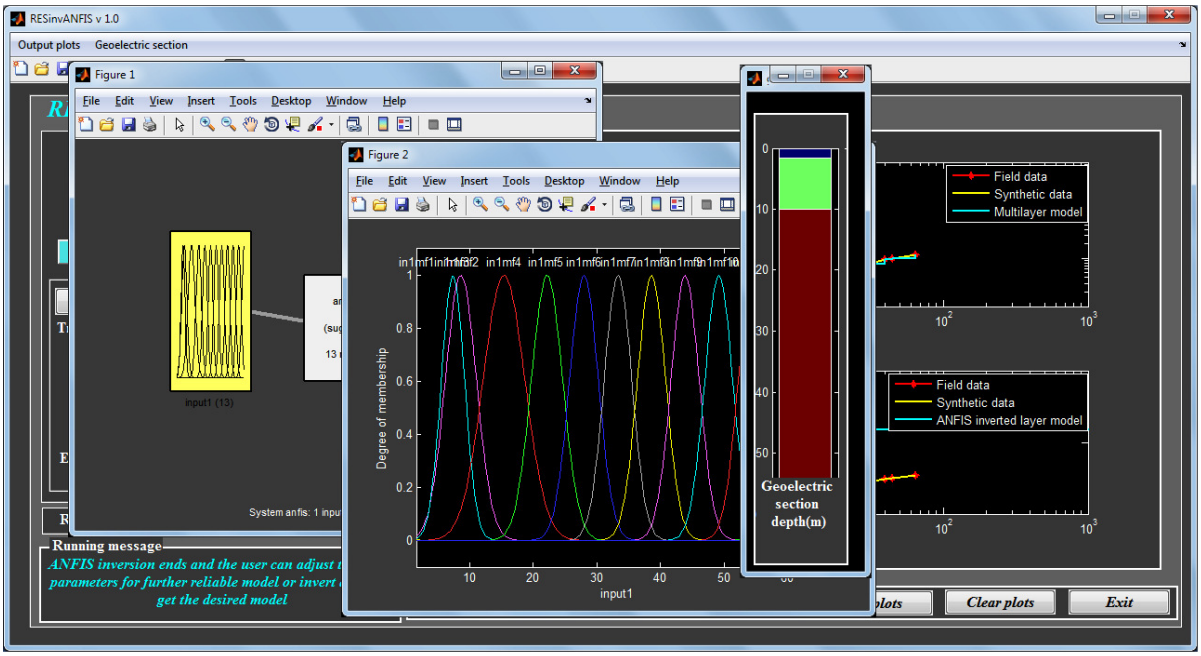


Step 7:

the user can view the separate subsurface regressed layer model graph by clicking the “Subsurface layer model” push button



Step 8: The user can view the output plots and geoelectric section by clicking the respective push buttons in the task bar



Step 9:

The user can save the plots and clear plots by clicking the respective push buttons. Exit push button will guide the user to quit the GUI panel after confirming the user with a question tag.