Logo, company name

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Description automatically generated**University Islamabad, Lahore Campus**

**Block–C, Department of Computer Science**

**COMSATS University Islamabad, Lahore Campus 1.5KM Defence Road, Off Raiwind Road, Lahore**

**Assignment#3 (50 marks)**

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Modify your assignment#2 from a console-based program to one with GUI. The GUI should be like this

Graphical user interface, text, application, table

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Moreover, instead of loading the SML program from command line you should read it from a file. The name of the file will be selected by using FileChooser class

FileChooser fileChooser = new FileChooser();

File file = fileChooser.showOpenDialog(

The above line will open a dialog box like shown below. Using this dialog box, you will select the file which contains the SML program that you want your Simpletron to execute. Once the program is loaded, as shown in the above figure, you will execute it one instruction at a time by pressing the “Execute Next Instruction” button.

Graphical user interface, application

Description automatically generated

**Do not provide IDE based solution. I will only accept solution which runs from command line. This assignment is worth 50 points because it requires a good amount of work so start early if you want to finish it on time and get full marks.**

**Warning :** I know that the solution to this problem is available on the net so suppress your temptation to submit copied code. I will probably find out and will penalize you. Moreover you won’t get good marks in the final exam if you don’t understand the GUI related topics.

Due Date : Wednesday, June 22nd, 2022