## **CO Project Report**

## Assembler and Gui

1-

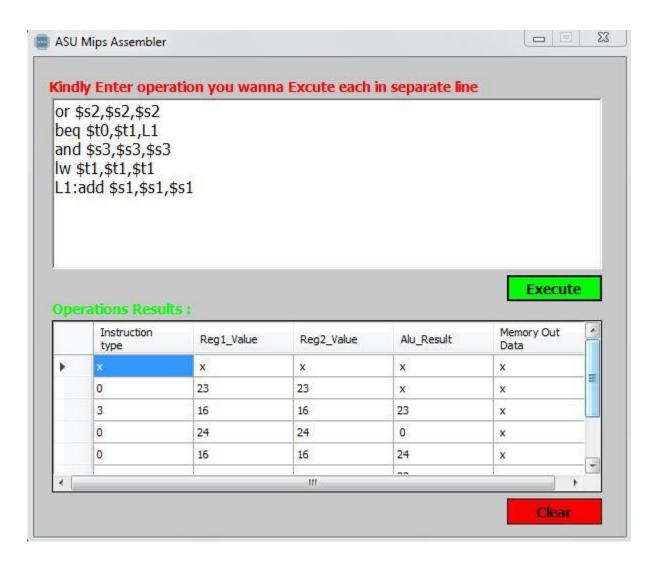
- We made a c++ program that takes a text file which contains assembly instructions as an input to our program.
- The c++ program then **parse** the instructions, and **converts** them into their **binary** equivalent.
- Finally the **binary** output is **written in a text file** in order to be an **input to the processor**.

2-

- To make it easier for the user to interact with our program.
  We made a (graphical user interface) using c#, then we mixed it with our c++ program.
- The (gui) enables the user to enter the instructions each in a line in a rich text box.
- When the user clicks on the execute button, it invokes the c++ program, so we have a binary text output.
- Then the gui invokes Modelsim to read the text file.
- Modelsim writes the output from test bench in a text file

• The **gui reads** the results from text file, and shows them in tables.

## Test case screenshot:



## How to make the program work?

1-The three text files: binary, instructions, modelsim\_results.. and The .exe files Must be put in the same directory of the modelsim project

2-run.tcl file must be put in C:\Modeltech\_pe\_edu\_10.4a\win32pe\_edu

3-run ASU Mips Assembler.exe.