**Lab3.1**

Objectives: -

After completion of this lab activity the student will be able to: -

* Handle File I/O Operation
* Use Regsub command

Steps: -

1. Create a tcl script named lab3.1.tcl
2. Display on the screen the following message

* "\*\*\*\* File I/O & Regsub Lab\*\*\*\*"

1. Open interface.txt file for reading
2. Read the data in interface.txt file
3. Substitute **input** word by **reg** word in the file data
4. Substitute **output** word by **wire** word in the file data
5. Add a prefix to all the input port names >> **i\_**
6. Add a prefix to all the output port names >> **o\_**
7. Add a semi colon after all the input and output ports
8. Open tb.txt file for writing
9. Write the new string to tb.txt file

The Target New String: -

reg [3:0] i\_IN;

reg i\_Load;

reg i\_Up;

reg i\_Down;

reg i\_CLK;

wire o\_High;

wire [3:0] o\_Counter;

wire o\_Low;