

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****"
- 3) Open interface.txt file for reading
- 4) Read the data in interface.txt file
- 5) Substitute **input** word by **reg** word in the file data
- 6) Substitute **output** word by **wire** word in the file data
- 7) Add a prefix to all the input port names >> **i_**
- 8) Add a prefix to all the output port names >> **o_**
- 9) Add a semi colon after all the input and output ports
- 10) Open tb.txt file for writing
- 11) 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;
```