Assignment-2

Design a not-gate using ARM assembly code and TM4C123 microcontroller. Your program should always check the input and accordingly produce an output.



Fig-1 Symbolic representation of a not-gate

In your design you required to follow the design steps as described below:

- a) Overall function, specifications (draw the truth table of the gate and show the relation between input and output)
- b) Define a procedure to test data flow (switch input, LED output)
- c) Flowchart (draw a data flowchart)
- d) write a pseudo code
- e) Write assembly code
- f) Simulate
- c) Take screenshot of the code and the graph from the simulator and include it in your assignment.
- g) Build the hardware prototype and take picture of it and include it in your assignment (this section is optional)

You are required to use the assignment cover page uploaded in Canvas.