

Lab Assignment # 3

Instructions

- Due Date for Assignment is **28-03-2013**.
- Assignment must be submitted on A4 page in printed form.
- The design must be implemented on **Proteus**, and you must attach a print (not photocopy) of schematic to the assignment.
- Assignment must be **completed individually**.

Task

Design and Simulate the Following on Proteus.

Use C language to implement a [square wave generator](#) with frequency selection capability. Use Pin 2.0 for frequency generation.

Use Pins P3.0 , P3.1 and P3.2 for Frequency Selection according to following table.

Use whichever timer mode you like.

P3.2	P3.1	P3.0	Frequency
0	0	0	1Hz
0	0	1	100Hz
0	1	0	250Hz
0	1	1	500Hz

1	0	0	1KHz
1	0	1	2KHz
1	1	0	2.5KHz
1	1	1	4KHz