## Assignment #12

Modeling Delays: timescale and \$time

- Observe delay effect with different timescales: Write a simple delay-based module and run it with different timescale values.
- Use different timescale in module and testbench: Observe the mismatch.
- Try different units: ns, us, ms: Write a module and use: -6 for microseconds , -3 for milliseconds, 0 for seconds
- **Print the timescale** of a any module in simulation (try atleast 4 already simulated modules)
- Nested modules with different timescales: Create two modules with different timescale values and call \$printtimescale from testbench.
- Write a Verilog module that simulates a simple counter circuit. Measure the time elapsed between two specific events during simulation using \$time, \$stime, and \$realtime. Display the results using \$display