York University

Dept. of Computer Science and Engineering

Digital Logic Design

CSE3201

Lab 5

In this lab you will use the circuits (modules) that you implemented in Lab 4 to design a more complicated circuit.

Problem

Design a 4-bit multiplier using shift-and-add technique. Use the ripple carry adder you implemented in the last lab.

Preparatory work

Draw the circuit diagram for the multiplier and write the Verilog code

In the lab

Simulate the circuit, show the simulation result to the TA, and then implement it on the board