ECN-252 Lab 5

You need to save the circuit for each part. These circuit files need to be submitted in a compressed folder (.zip) with your roll no. as the name. For example, if your roll no. is 191112002, you need to submit 191112002.zip The .zip should also contain a report.

Part -1:

Design a half adder and a full adder (similar to Lab-2). Use minimum number of gates.

Part -2:

Design a 4-bit multiplier using the half- and full- adders from Part-1. Simulate and show the results of

- (a) 1111 x 1111
- (b) 1011 x 1110

The report should contain the circuit diagrams as well as all the input and output combinations for your halfand full- adders. It should also contain the circuit diagram for your multiplier along with the required simulations results.

Deadline: 21 March 11:59 pm.