## **EC204 DIGITAL SYSTEM DESIGN LAB**

## Lab 0 (13-09-2021)

- 1. Demo of features of Logisim using example of Half adder circuit and schematic capture
- 2. Using two half adder modules to implement a full adder
- 3. Using 4 Full adder modules to implement a 4 bit ripple carry adder
- 4. Demo of how to do design entry using truth table/logic expression and combinational synthesis
- 5. Draw NAND-NAND for F = WX'Y' + XY'Z + XY
- 6. Draw NOR NOR for  $G = \prod_{A,B,C} (1, 2, 6, 7)$