

Design Studio – Week 9

Today you will:

- Package and deliver your circuit design from Logic.ly
- Assist in integrating and testing the overall class design
- Observe the circuit design for P and Q in PLC ladder logic

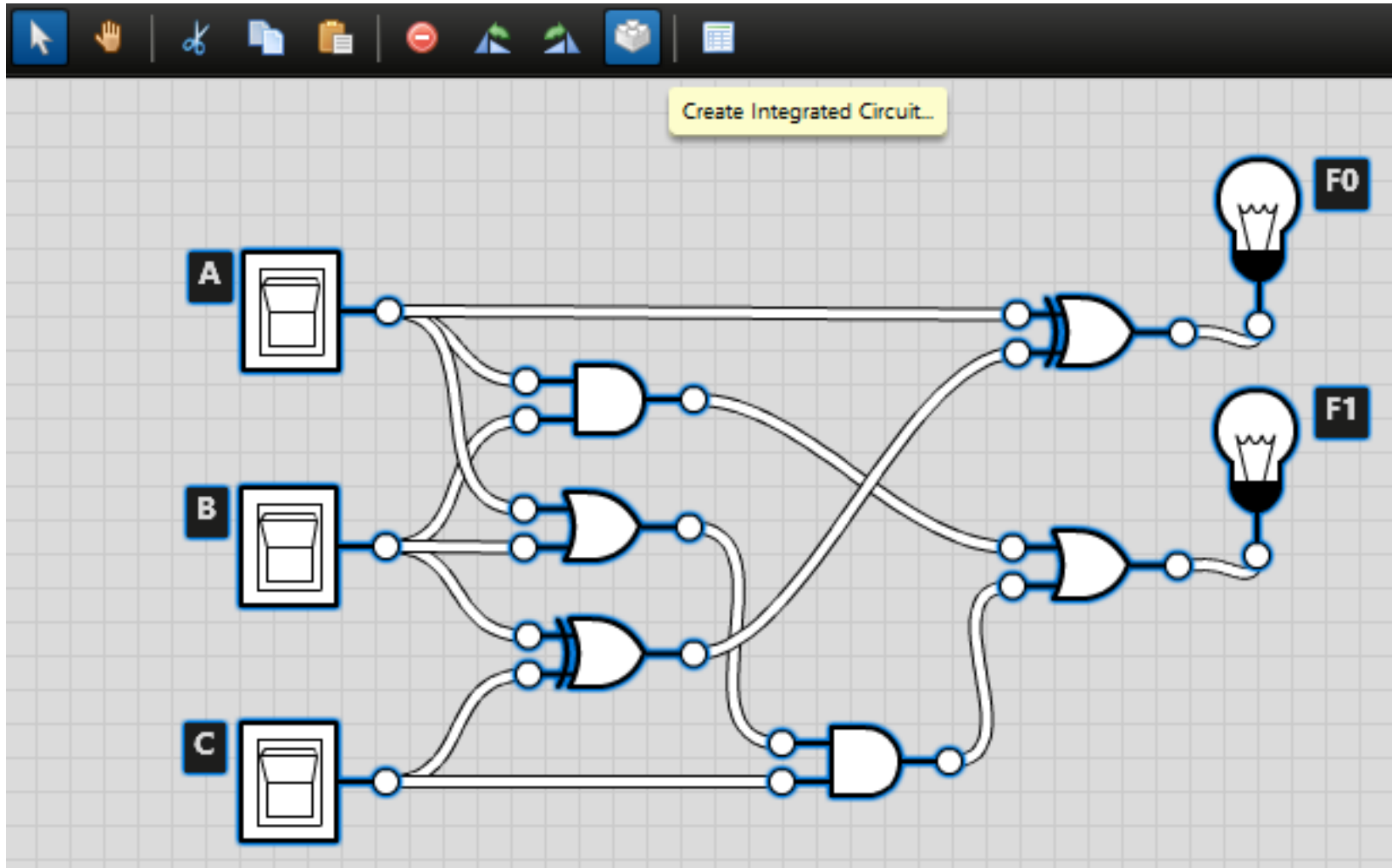
Assignments:

- Exercise worksheet for digital circuit integration and test

Integration – Logic.ly

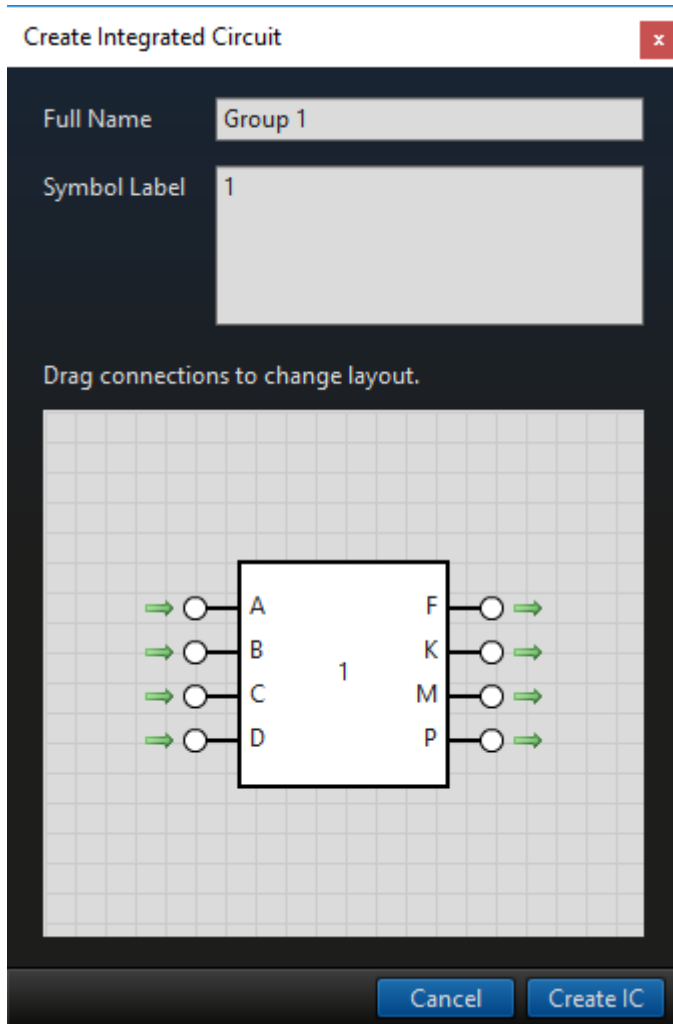
Create

Use *Create Integrated Circuit...* button to package your design.



Integration – Logic.ly

Create



To package your design:

- Use your group as the circuit name, e.g. “Group 1”
- For the symbol label, just use the number of your group, e.g. “1”
- Arrange the pins so all of the inputs are on the left and all of the outputs are on the right
- Also arrange the inputs and outputs in alphabetical order
- Click *Create IC* to add the part to your library (under “Custom”)

Integration – Logic.ly

Create



Your IC should appear at the bottom of the menu on the left.

Scroll and find it to ensure it's there.

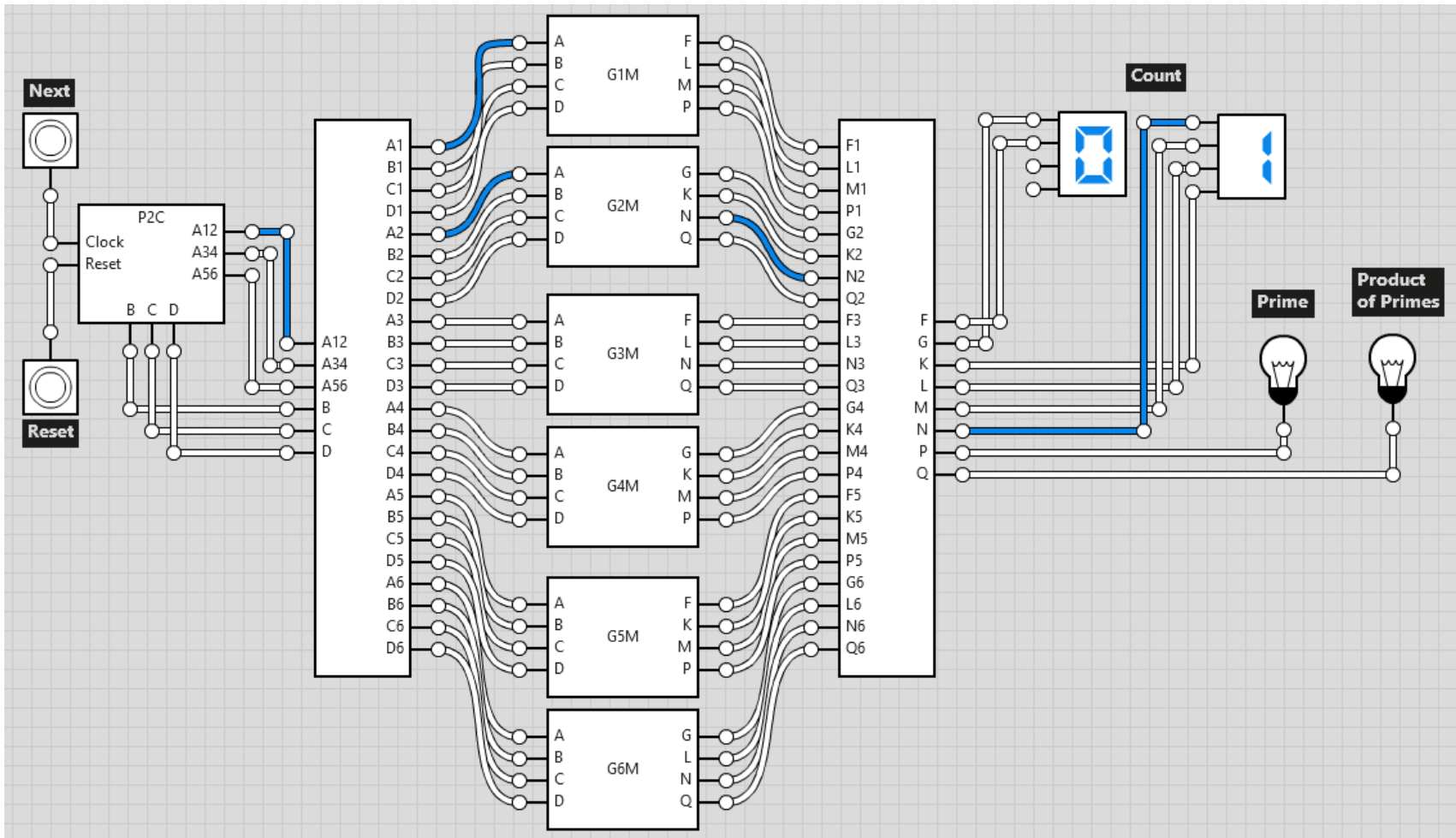
To export the library of custom ICs,
use the menu to select *File > Export Integrated Circuit Library...*

Give the file a name including your group number and send the file to your instructor.

Project 2 Testing

Test

Follow along with the worksheet to test the overall design.



Project 2 Testing

Test

We'll also test the implementation of primes (P) and product of primes (Q) in PLC ladder logic using i-TRiLOGI.

