

MISR UNIVERSITY FOR SCIENCE AND TECHNOLOGY
COLLEGE OF ENGINEERING
MECHATRONICS DEPARTMENT



MTE 405 SENSORS AND MEASUREMENTS

LAB 6 – SPRING 2020

Lab 6

Goals Of The Lab

Simulation of Encoder with Arduino



Counting Encoder Pulses



Speed Variability with Sampling Time

Lab 6

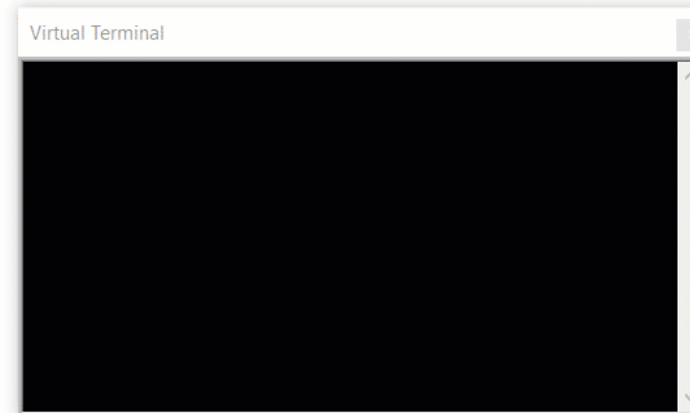
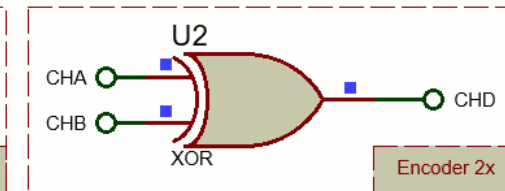
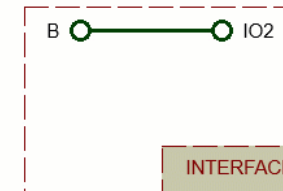
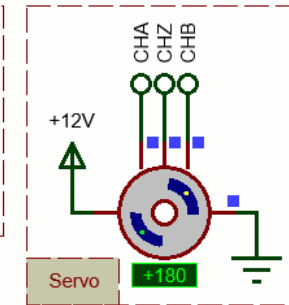
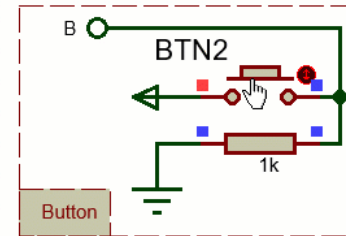
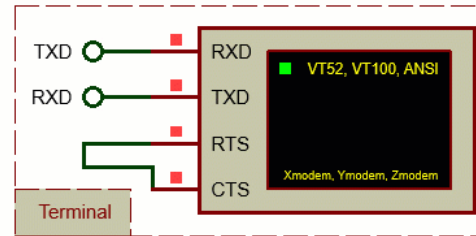
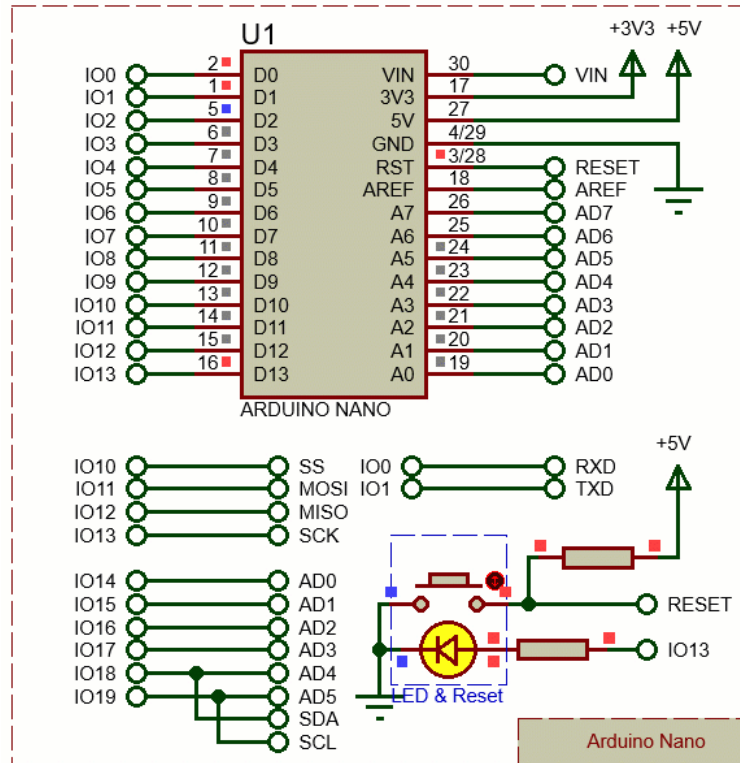
Exercise 0

External Interrupt



Lab 6

External Interrupt



Lab 6

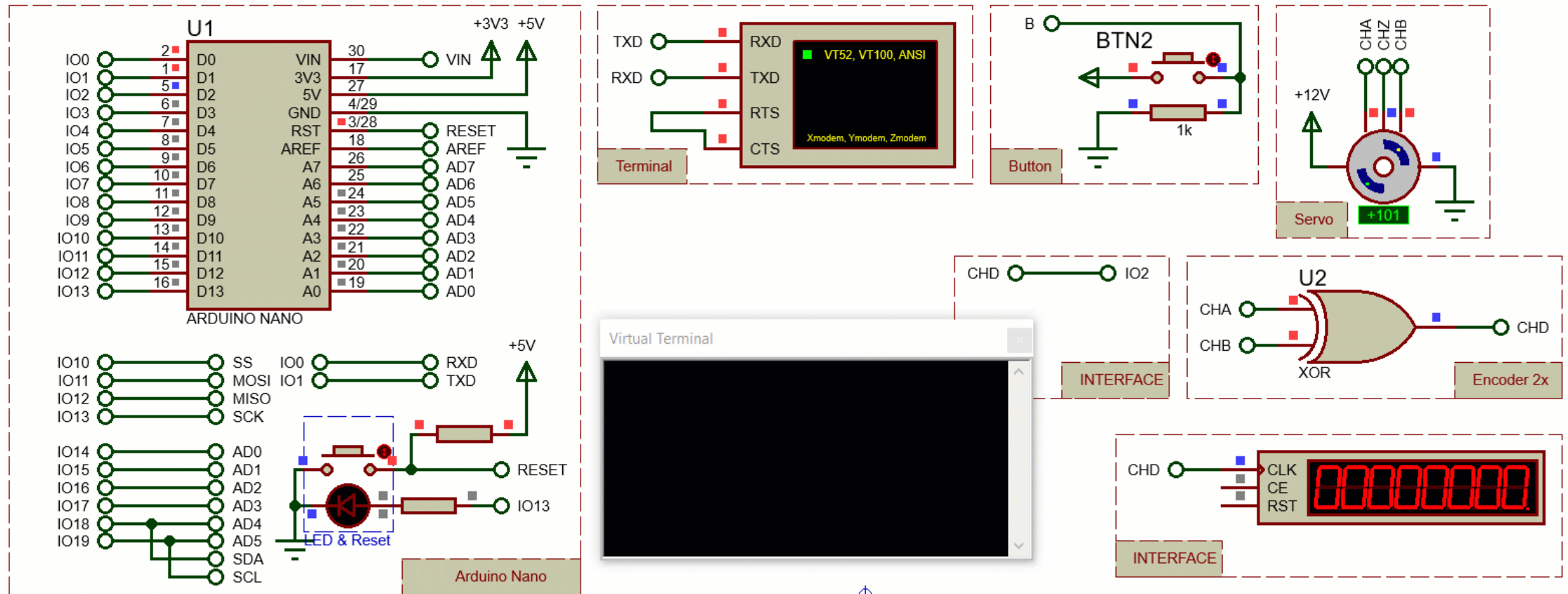
Exercise 1

Counting Encoder Pulses



Lab 6

Encoder Speed (PPS)



Lab 6

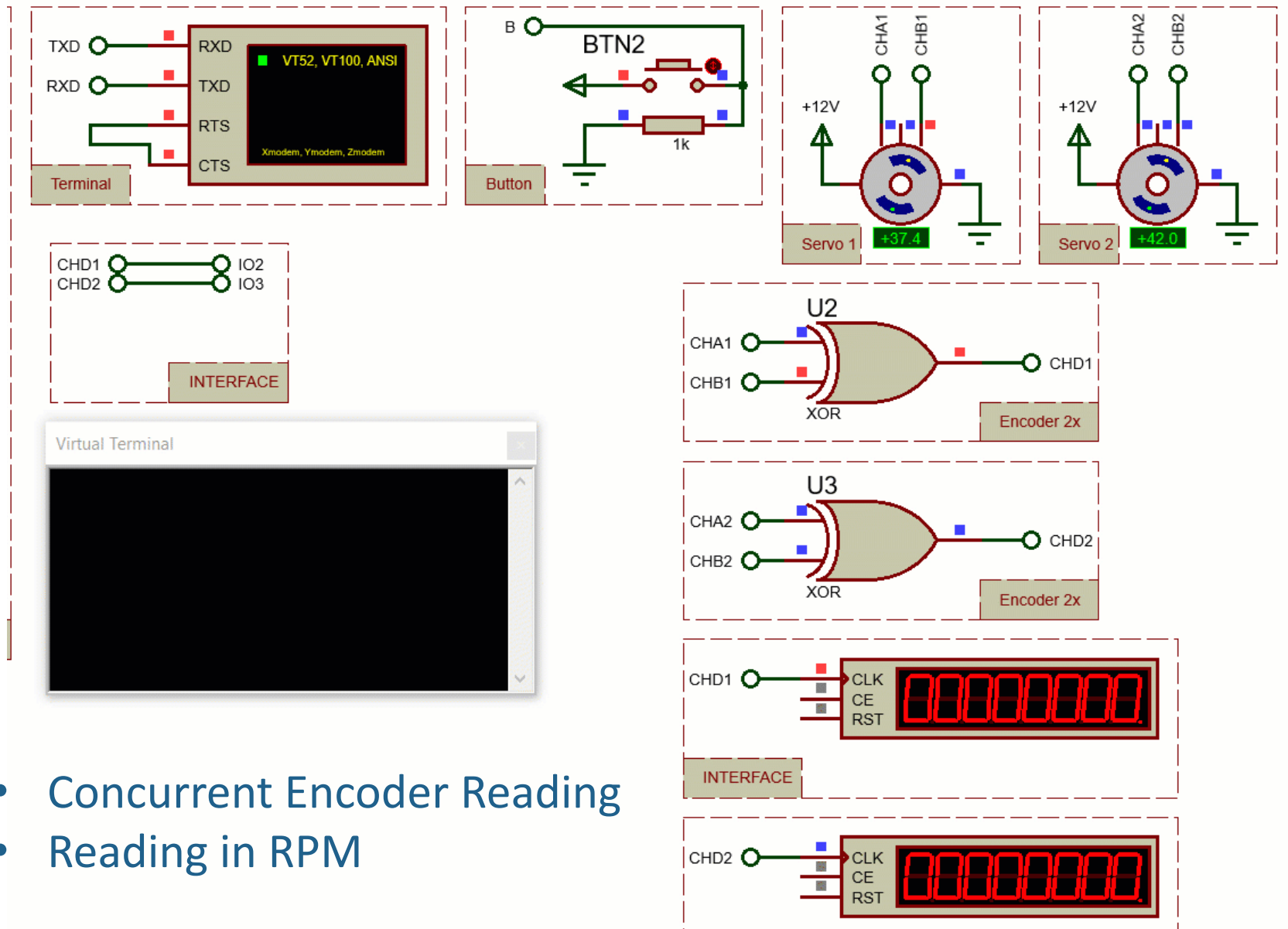
Exercise 3

Encoder Frequency



Lab 6

Assignment 5



- Concurrent Encoder Reading
- Reading in RPM

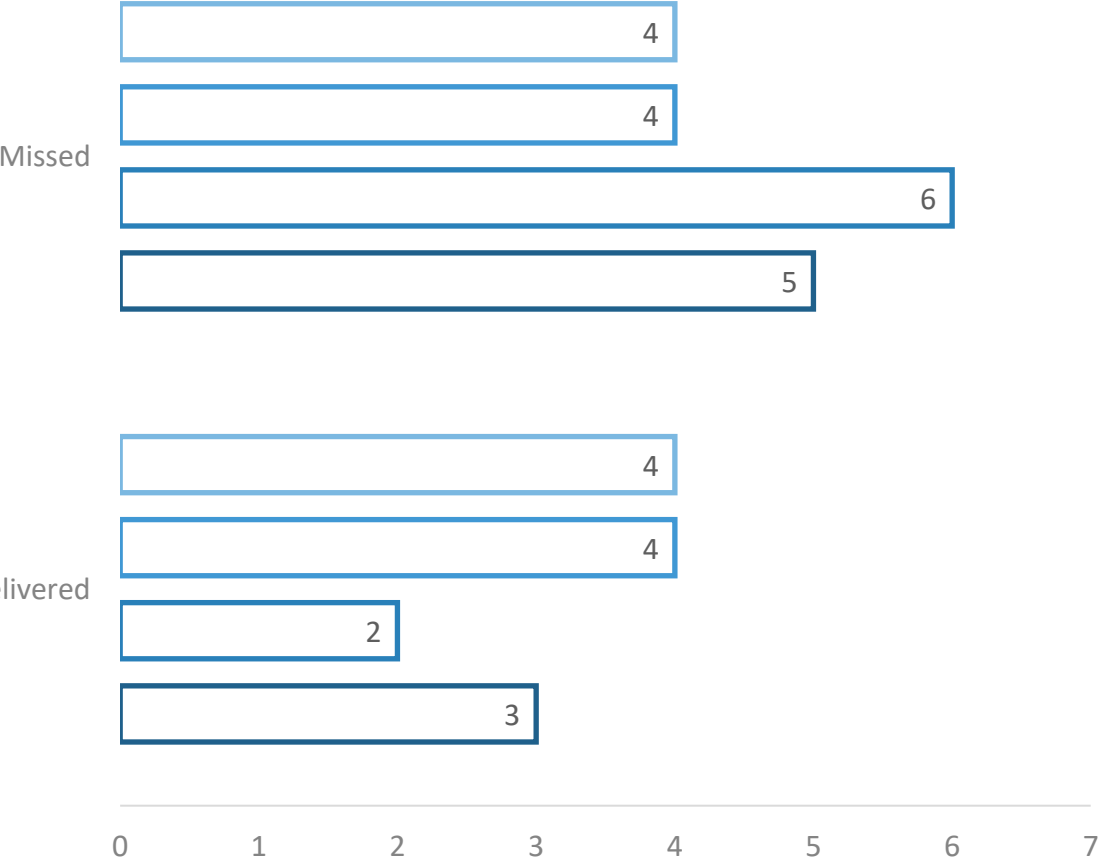
ASSIGNMENT 4

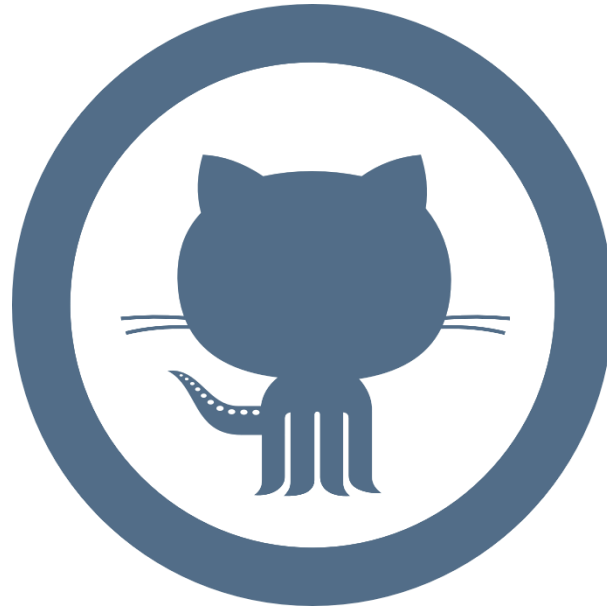
Missed
50%

Delivered
50%

ASSIGNMENTS PROGRESS

Assignment 32 Assignment 3 Assignment 2 Assignment 1





Don't forget to pull the lab update from.

<http://github.com/wbadry/mte405>

END OF Lab 6