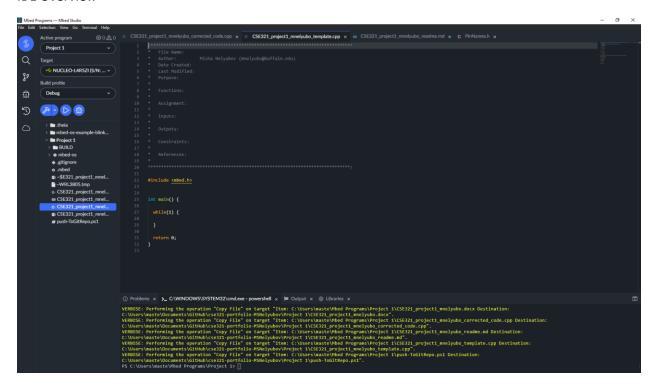
CSE321 Project 1

Part 3:

IDE Overview



Project Tree:

Standard Template with header:

```
Assignment:
18
  #include <mbed.h>
  int main() {
   while(1) {
   }
   return 0;
```

Part 4: GitHub

Account Name: MSNelyubov

Repository URL: https://github.com/CSE321-Fall2021/cse321-portfolio-MSNelyubov/tree/main

Part 5: Planning a Traffic Controller

Given problem statement from the instructions:

An IoT device is needed for controlling traffic on campus based on geese proximity. These are special geese, and they need to stay safe. The device will be programmed with a standard embedded OS and will make use of sensors for detecting traffic and geese. The traffic is controlled by a single light that will stop traffic in all directions, when needed, to protect the geese by turning red. When traffic can flow, the light blinks red and is treated as a stop sign.

Purpose

• Protect geese from traffic by signaling traffic to stop for a traffic light

Inputs

- The presence of geese
 - Must be detected by sensors

Outputs

- A Red LED that will either blink or stay lit up
 - Brightness must be sufficient to be seen by oncoming traffic in day and nighttime conditions
 - Light output power supply should remain on at all times

Relationships

 The output LED should blink in the absence of geese and stay consistently bright in the presence of geese.

Implementation Plan

