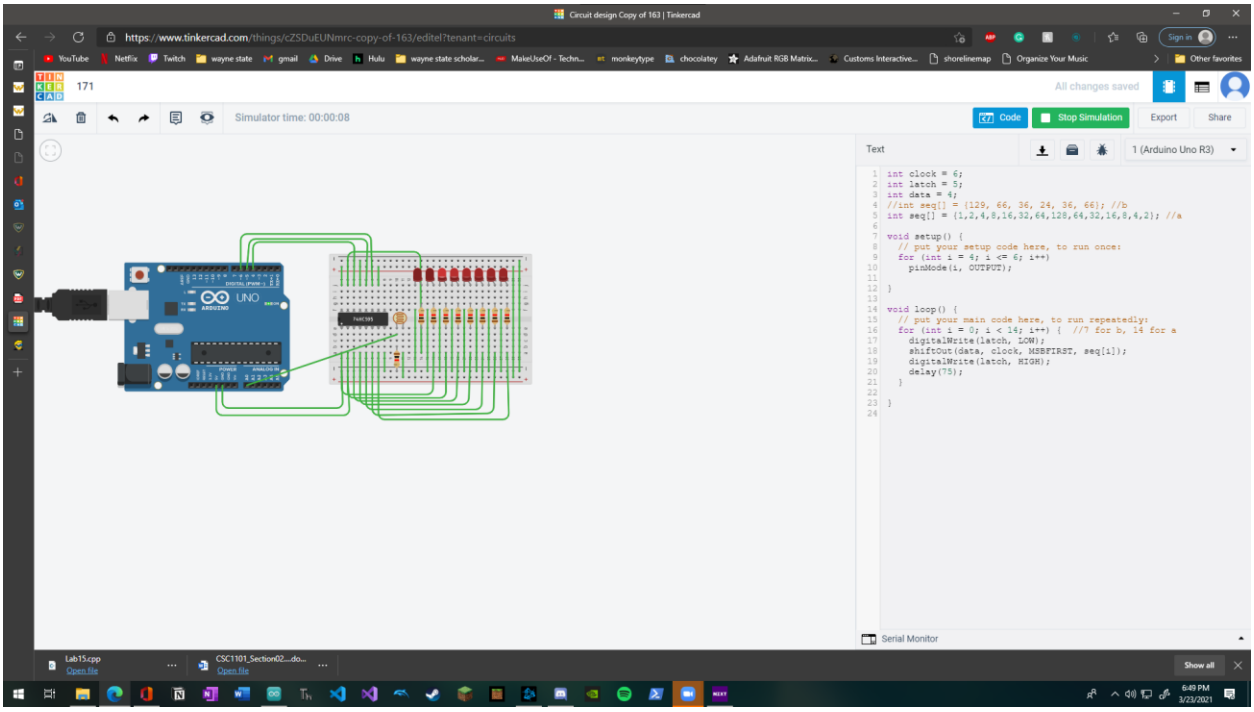
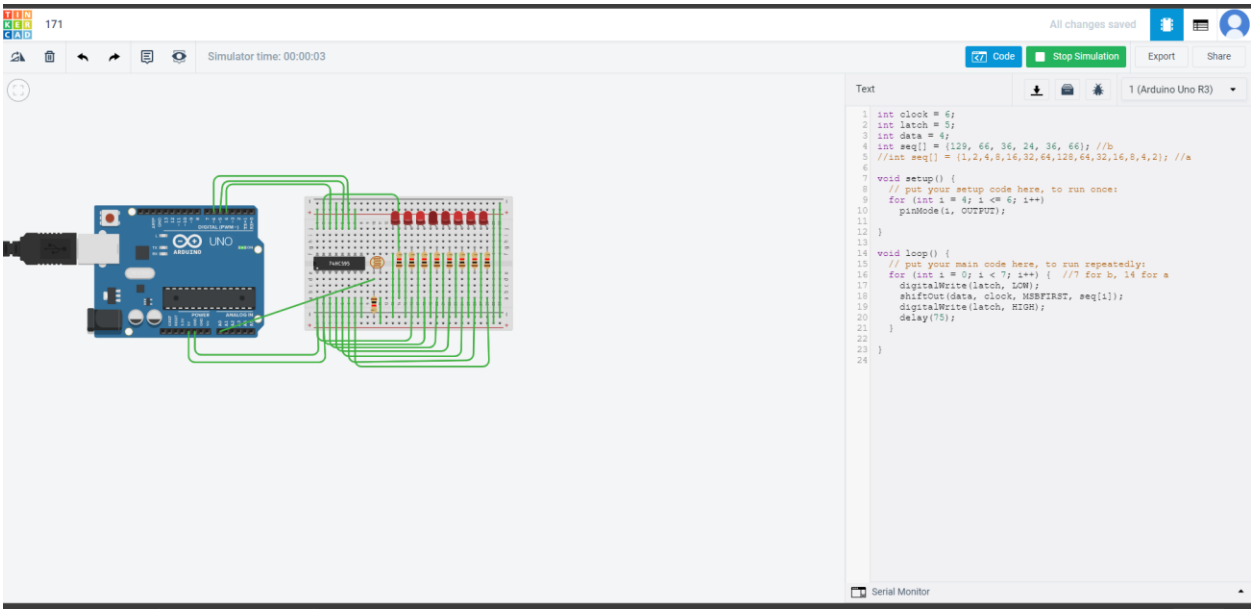
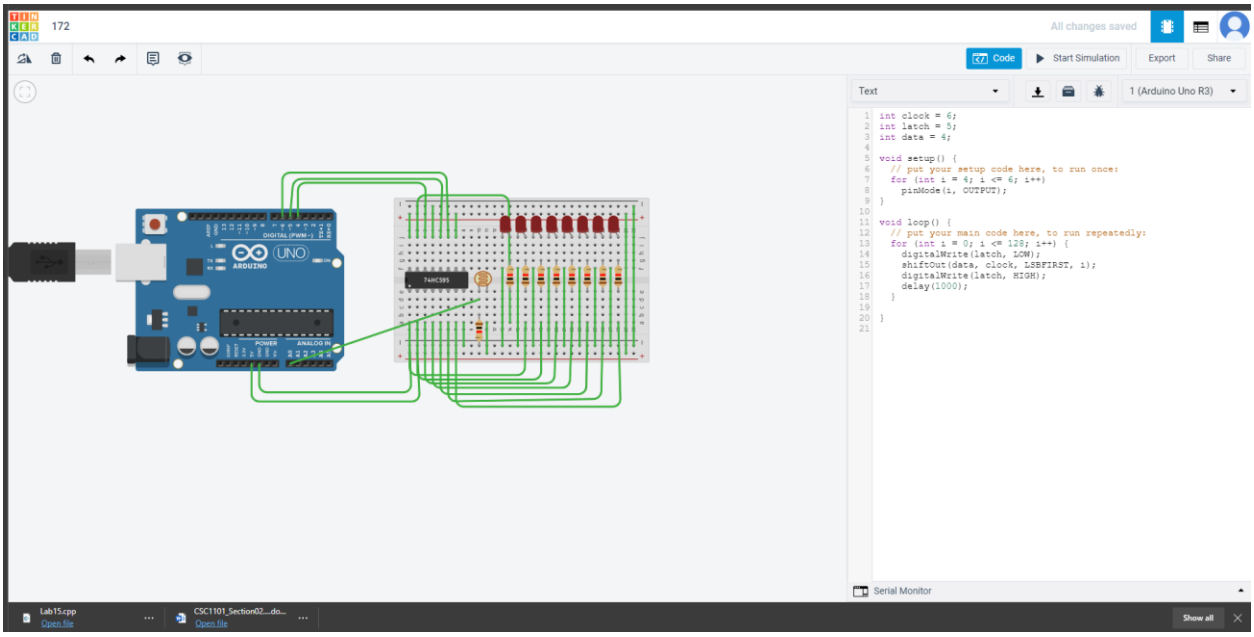
Exercise 1 rory lange

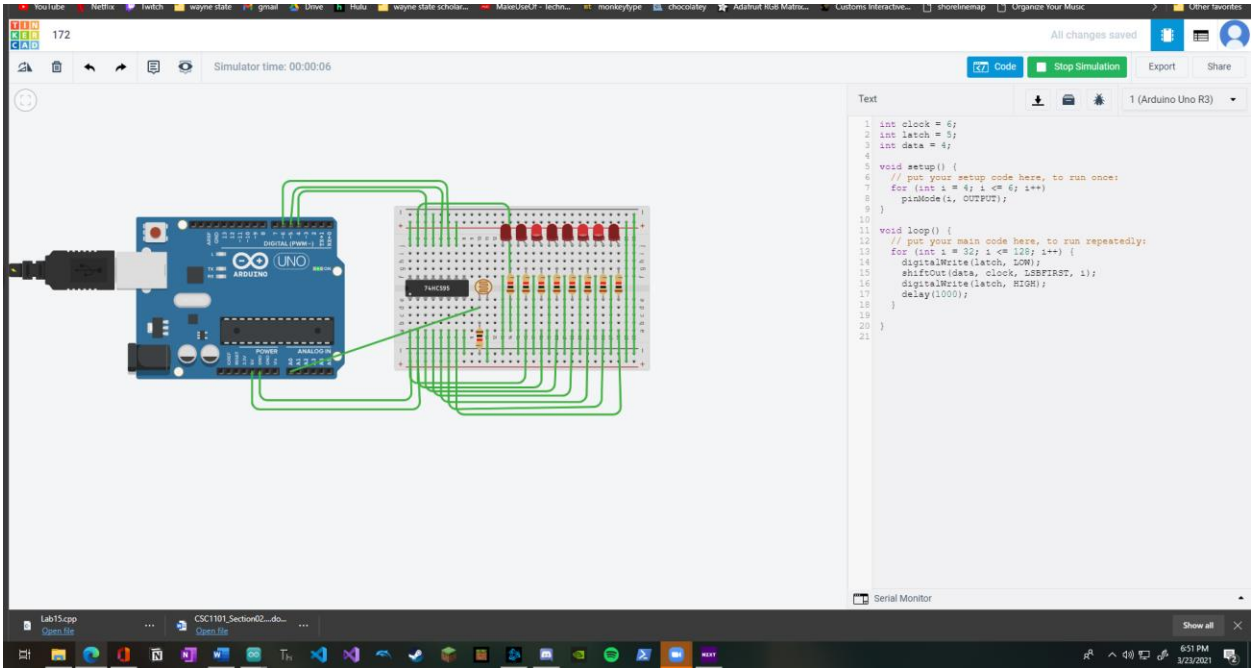


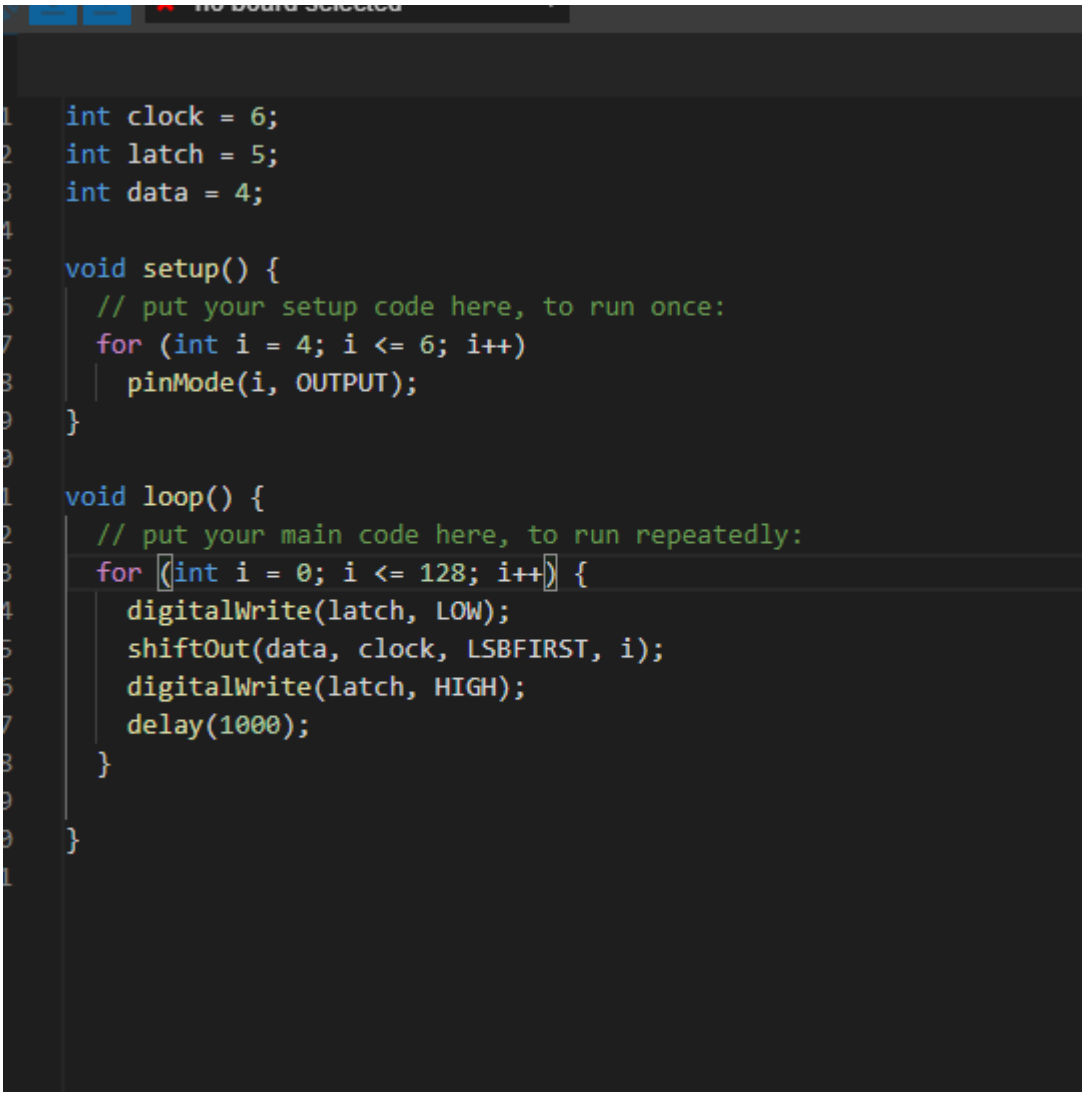
Exercise 1b



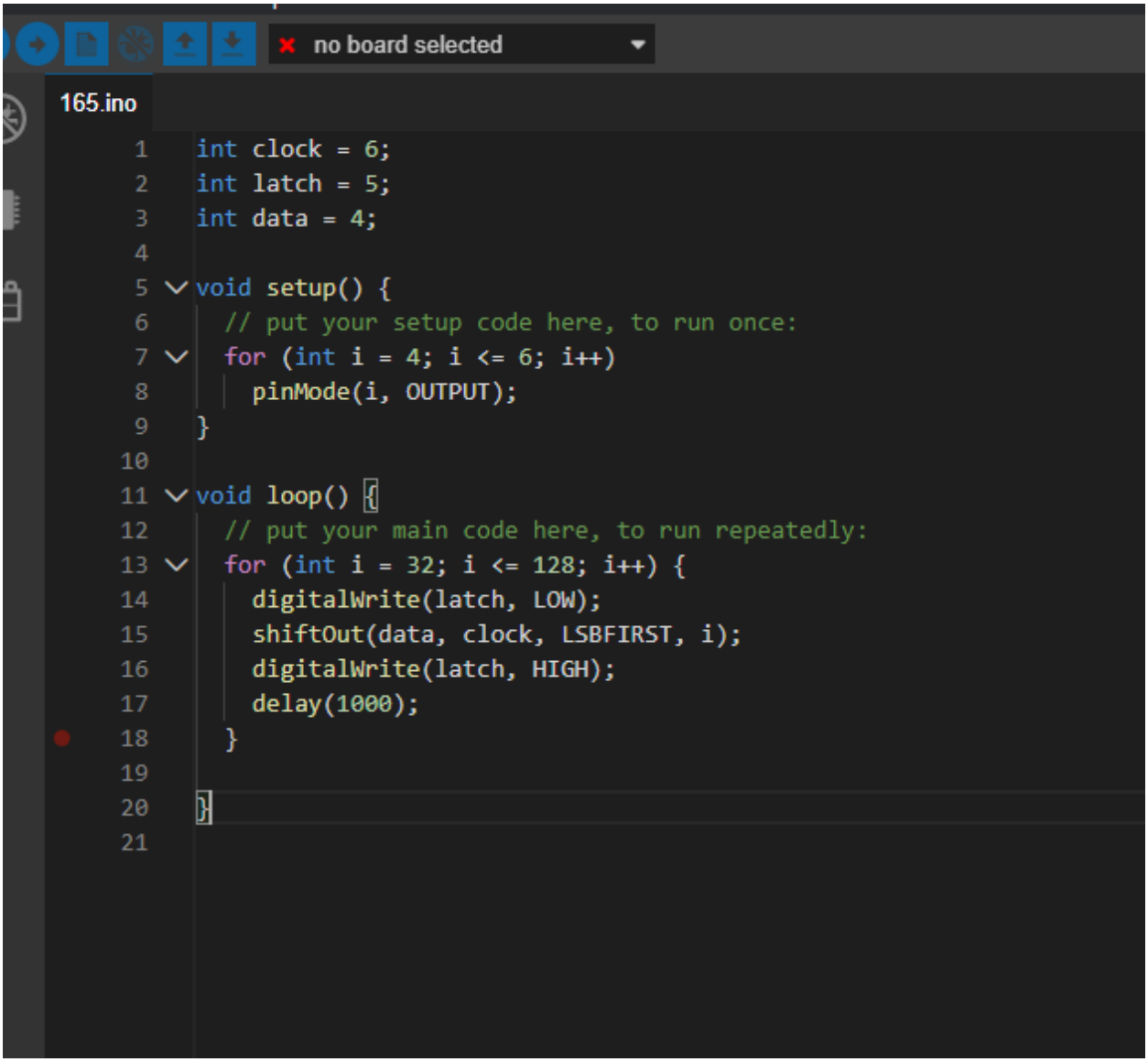
Exercise 2

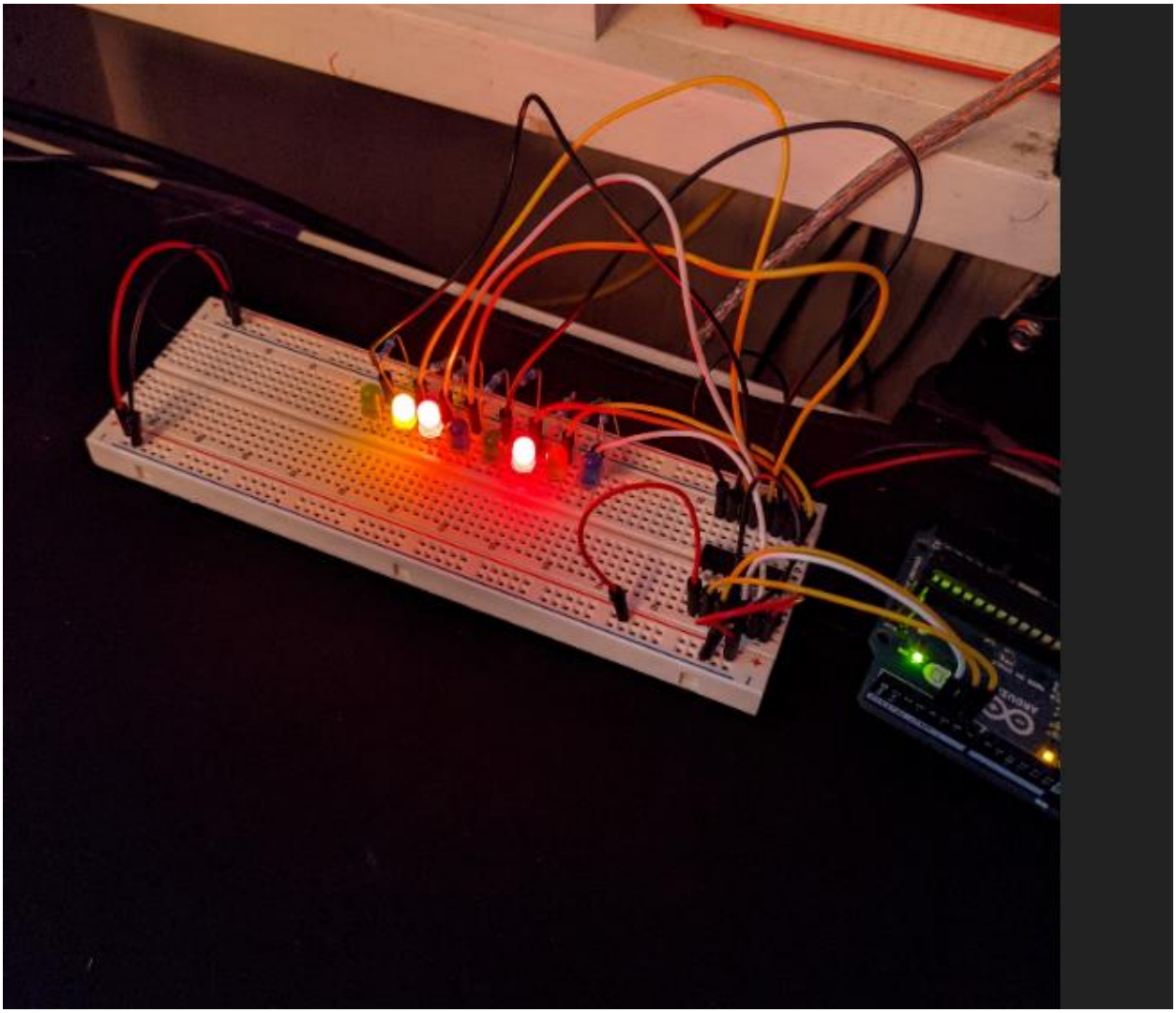

172
All changes saved
Code
Start Simulation
Export
Share
Text
1 (Arduino Uno R3)
int clock = 6;
int latch = 5;
int data = 4;
void setup() {
// put your setup code here, to run once:
for (int i = 4; i <= 6; i++)
pinMode(i, OUTPUT);
}
void loop() {
// put your main code here, to run repeatedly:
for (int i = 0; i <= 128; i++) {
digitalWrite(latch, LOW);
shiftOut(data, clock, LSBFIRST, i);
digitalWrite(latch, HIGH);
delay(1000);
}
}
Serial Monitor
Lab15.cpp
Open file
CSC1101_Section02....do...
Open file
Show all


172
All changes saved
Simulator time: 00:00:06
Code
Stop Simulation
Export
Share
Text
1 (Arduino Uno R3)
int clock = 6;
int latch = 5;
int data = 4;
void setup() {
// put your setup code here, to run once:
for (int i = 4; i <= 6; i++)
pinMode(i, OUTPUT);
}
void loop() {
// put your main code here, to run repeatedly:
for (int i = 32; i <= 128; i++) {
digitalWrite(latch, LOW);
shiftOut(data, clock, LSBFIRST, i);
digitalWrite(latch, HIGH);
delay(1000);
}
}
Serial Monitor
Lab15.cpp
Open file
CSC1101_Section02....do...
Open file
Show all
6:51 PM
3/23/2021



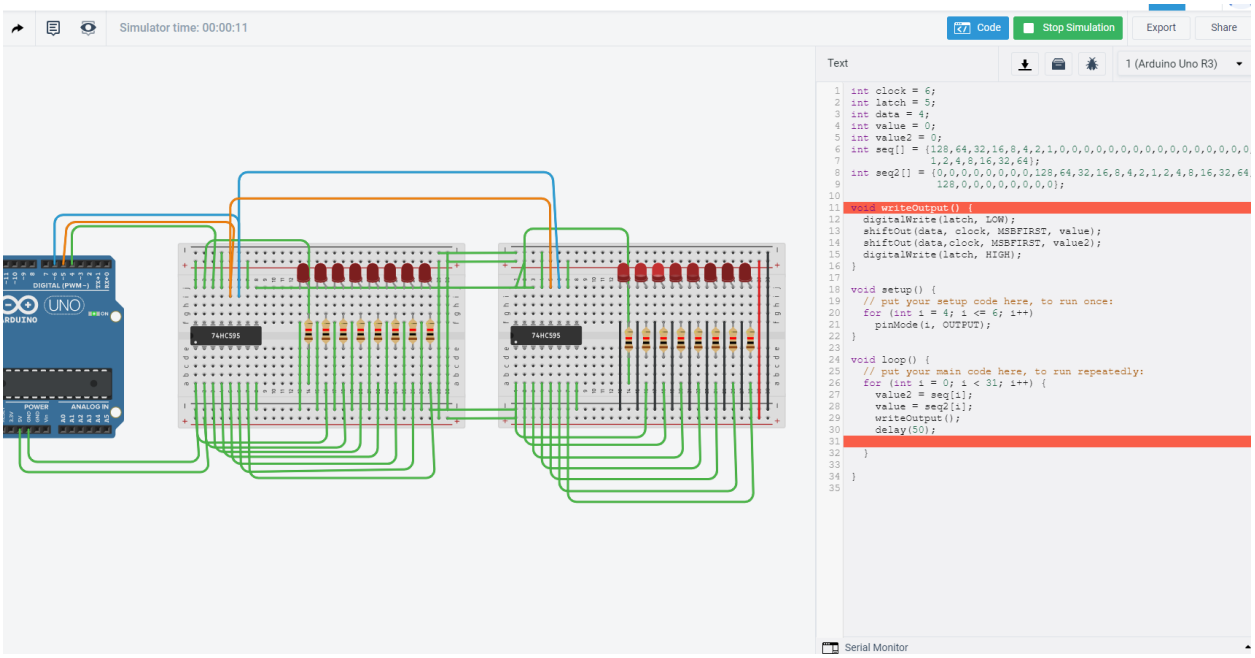
```
int clock = 6;
int latch = 5;
int data = 4;

void setup() {
  // put your setup code here, to run once:
  for (int i = 4; i <= 6; i++)
    pinMode(i, OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
  for (int i = 0; i <= 128; i++) {
    digitalWrite(latch, LOW);
    shiftOut(data, clock, LSBFIRST, i);
    digitalWrite(latch, HIGH);
    delay(1000);
  }

}
```


no board selected
165.ino
int clock = 6;
int latch = 5;
int data = 4;
void setup() {
// put your setup code here, to run once:
for (int i = 4; i <= 6; i++)
pinMode(i, OUTPUT);
}
void loop() {
// put your main code here, to run repeatedly:
for (int i = 32; i <= 128; i++) {
digitalWrite(latch, LOW);
shiftOut(data, clock, LSBFIRST, i);
digitalWrite(latch, HIGH);
delay(1000);
}
}



you still need all of the leds in order to display all the numbers between 32 and 128

Exercise 3




```
int clock = 6;
int latch = 5;
int data = 4;
int value = 0;
int value2 = 0;
int seq[] = {128,64,32,16,8,4,2,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
             1,2,4,8,16,32,64};
int seq2[] = {0,0,0,0,0,0,0,0,128,64,32,16,8,4,2,1,2,4,8,16,32,64,
              128,0,0,0,0,0,0,0,0,0};

void writeOutput() {
  digitalWrite(latch, LOW);
  shiftOut(data, clock, MSBFIRST, value);
  shiftOut(data,clock, MSBFIRST, value2);
  digitalWrite(latch, HIGH);
}

void setup() {
  // put your setup code here, to run once:
  for (int i = 4; i <= 6; i++)
    pinMode(i, OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
  for (int i = 0; i < 31; i++) {
    value2 = seq[i];
    value = seq2[i];
    writeOutput();
    delay(50);
  }
}
```