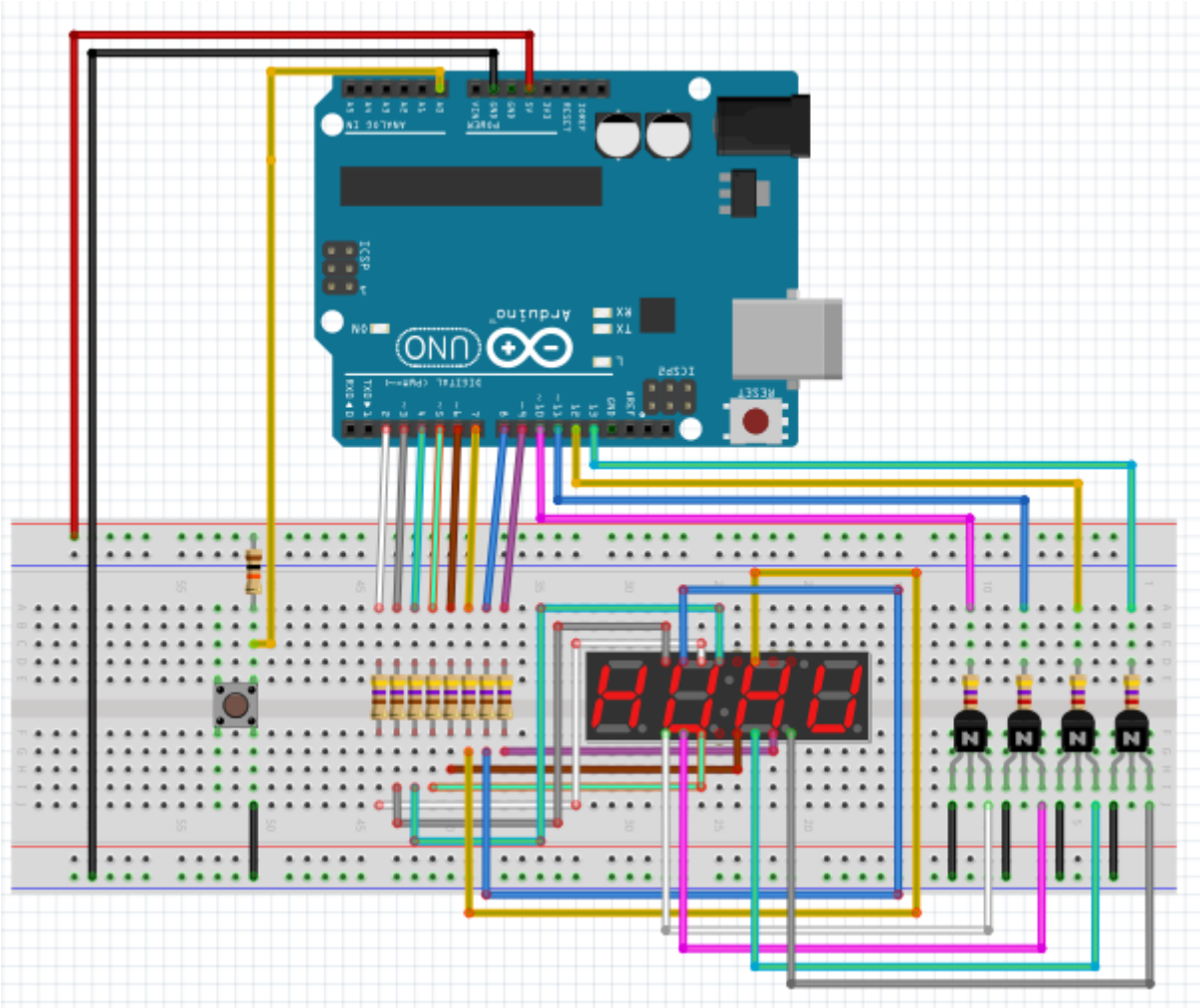
ECET 130 - Lab 5
Seven Segment Displays

Part1:

Wire the following circuit.



The transistors are 2N3904 or equivalent with the pinout EBC.
Seven Segment Display Lite-On-LTC-4727JR.

You are to write a program to count 1 everytime the button is pressed and display it on the seven segment display. Holding down the button can increment the display. It must be possible to just count one on a button press.

You need to use an array to represent each digit.

Some helpful hints:

Get 1 digit going before moving on to the rest.

char zero[] = { 1,1,1,1,1,1,0 }; // = 0

case 0: sevenSegWrite(zero); break;

```
void sevenSegWrite(char number[]) {
  byte pin = 2;
  for (int segCount = 0; segCount < 7; ++segCount) {
    digitalWrite(pin, number[segCount]);
    pin++;
  }
}
```

Submit to the dropbox Lab5 folder by the start of lab Week8:

- **your appropriately commented program**
- **if possible, a photo of your seven segment output**

Be prepared to demo your lab in lab Week8