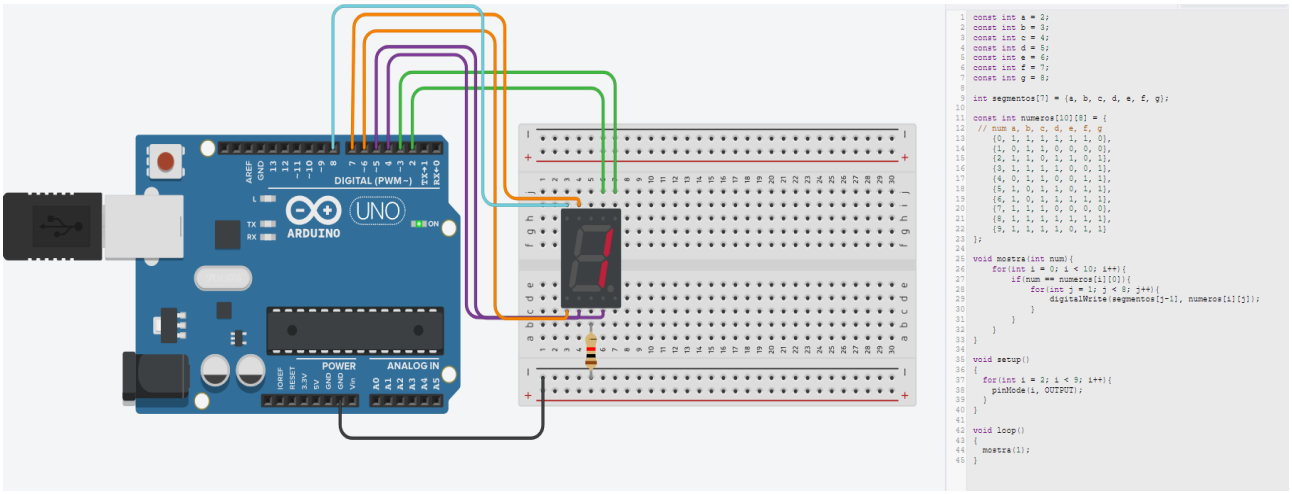
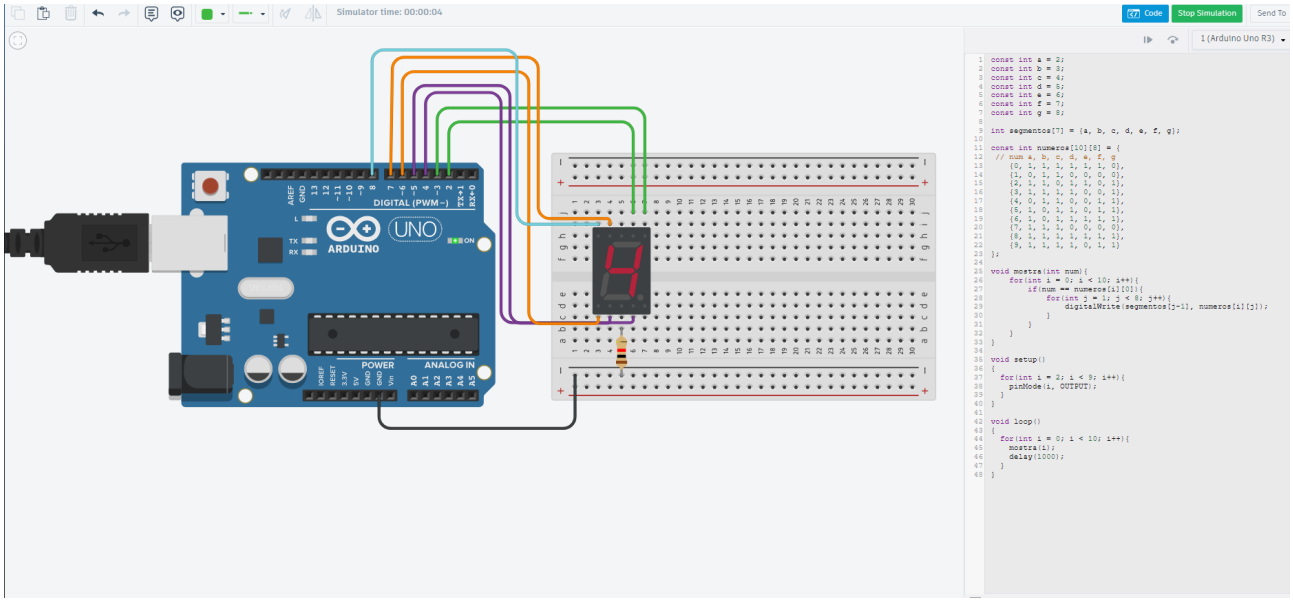
Relatório 10 LIEC

1-



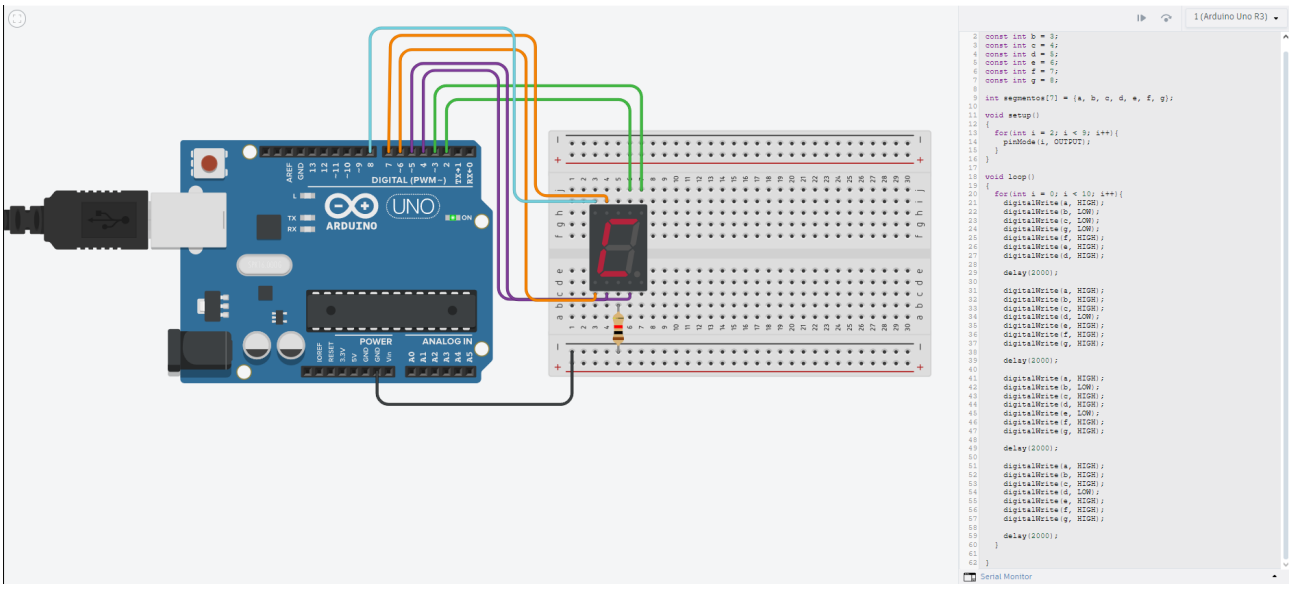
```
const int a = 2;
const int b = 3;
const int c = 4;
const int d = 5;
const int e = 6;
const int f = 7;
const int g = 8;

int segmentos[7] = {a, b, c, d, e, f, g};

const int numeros[10][8] = {
 // num a, b, c, d, e, f, g
    {0, 1, 1, 1, 1, 1, 1, 0},
    {1, 0, 1, 1, 0, 0, 0, 0},
    {2, 1, 1, 0, 1, 1, 0, 1},
    {3, 1, 1, 1, 1, 0, 0, 1},
    {4, 0, 1, 1, 0, 0, 1, 1},
    {5, 1, 0, 1, 1, 0, 1, 1},
    {6, 1, 0, 1, 1, 1, 1, 1},
    {7, 1, 1, 1, 0, 0, 0, 0},
    {8, 1, 1, 1, 1, 1, 1, 1},
    {9, 1, 1, 1, 1, 0, 1, 1}
};

void mostra(int num){
    for(int i = 0; i < 10; i++){
        if(num == numeros[i][0]){
            for(int j = 1; j < 8; j++){
                digitalWrite(segmentos[j-1], numeros[i][j]);
            }
        }
    }
}

void setup()
{
  for(int i = 2; i < 9; i++){
    pinMode(i, OUTPUT);
  }
}

void loop()
{
  mostra(1);
}
```

2-



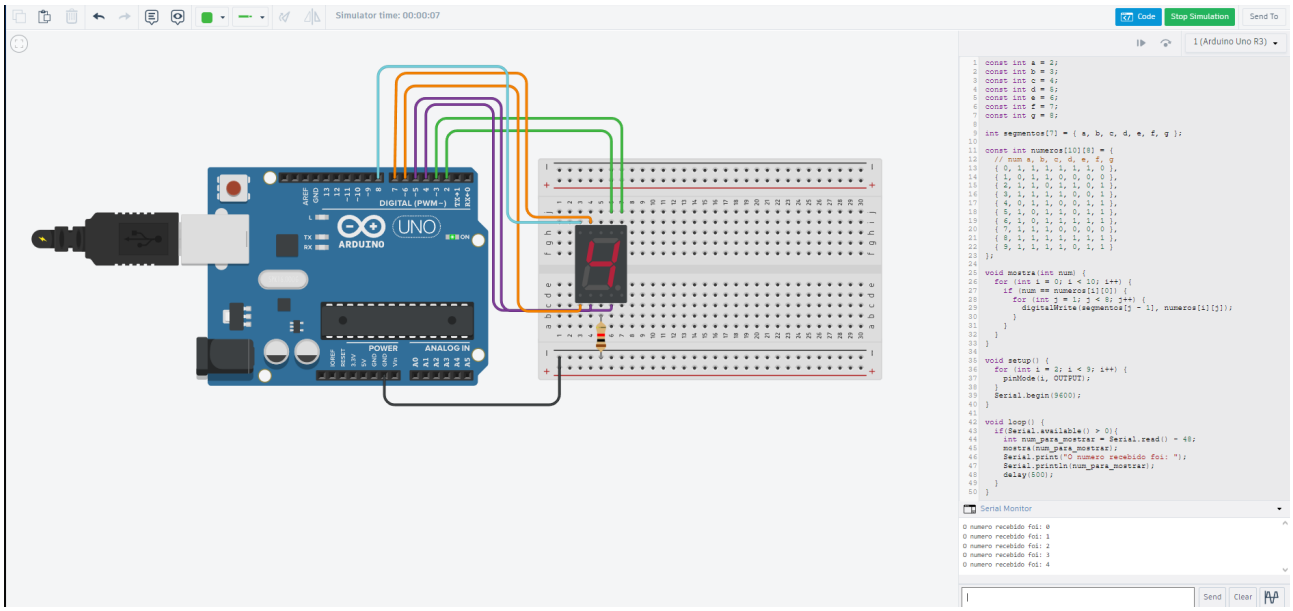
```
const int a = 2;
const int b = 3;
const int c = 4;
const int d = 5;
const int e = 6;
const int f = 7;
const int g = 8;

int segmentos[7] = {a, b, c, d, e, f, g};

const int numeros[10][8] = {
 // num a, b, c, d, e, f, g
    {0, 1, 1, 1, 1, 1, 1, 0},
    {1, 0, 1, 1, 0, 0, 0, 0},
    {2, 1, 1, 0, 1, 1, 0, 1},
    {3, 1, 1, 1, 1, 0, 0, 1},
    {4, 0, 1, 1, 0, 0, 1, 1},
    {5, 1, 0, 1, 1, 0, 1, 1},
    {6, 1, 0, 1, 1, 1, 1, 1},
    {7, 1, 1, 1, 0, 0, 0, 0},
    {8, 1, 1, 1, 1, 1, 1, 1},
    {9, 1, 1, 1, 1, 0, 1, 1}
};

void mostra(int num){
    for(int i = 0; i < 10; i++){
        if(num == numeros[i][0]){
            for(int j = 1; j < 8; j++){
                digitalWrite(segmentos[j-1], numeros[i][j]);
            }
        }
    }
}

void setup()
{
  for(int i = 2; i < 9; i++){
    pinMode(i, OUTPUT);
  }
}

void loop()
{
  for(int i = 0; i < 10; i++){
    mostra(i);
    delay(1000);
  }
}
```

3 -



```
const int b = 3;
const int c = 4;
const int d = 5;
const int e = 6;
const int f = 7;
const int g = 8;

int segmentos[7] = {a, b, c, d, e, f, g};

void setup()
{
  for(int i = 2; i < 9; i++){
    pinMode(i, OUTPUT);
  }
}

void loop()
{
  for(int i = 0; i < 10; i++){
    digitalWrite(a, HIGH);
    digitalWrite(b, LOW);
    digitalWrite(c, LOW);
    digitalWrite(g, LOW);
    digitalWrite(f, HIGH);
    digitalWrite(e, HIGH);
    digitalWrite(d, HIGH);

    delay(2000);

    digitalWrite(a, HIGH);
    digitalWrite(b, HIGH);
    digitalWrite(c, HIGH);
    digitalWrite(d, LOW);
    digitalWrite(e, HIGH);
    digitalWrite(f, HIGH);
    digitalWrite(g, HIGH);

    delay(2000);

    digitalWrite(a, HIGH);
    digitalWrite(b, LOW);
    digitalWrite(c, HIGH);
    digitalWrite(d, HIGH);
    digitalWrite(e, LOW);
    digitalWrite(f, HIGH);
    digitalWrite(g, HIGH);

    delay(2000);

    digitalWrite(a, HIGH);
    digitalWrite(b, HIGH);
    digitalWrite(c, HIGH);
    digitalWrite(d, LOW);
    digitalWrite(e, HIGH);
    digitalWrite(f, HIGH);
    digitalWrite(g, HIGH);

    delay(2000);
  }
}
```

4 -


Simulator time: 00:00:07
Code
Stop Simulation
Send To
1 (Arduino Uno R3)
Serial Monitor
Send
Clear