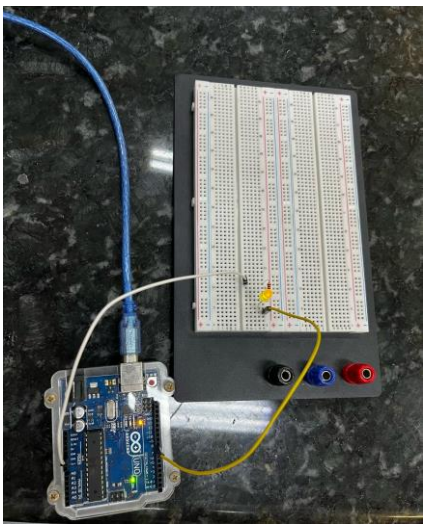
Circuitos Semáforos

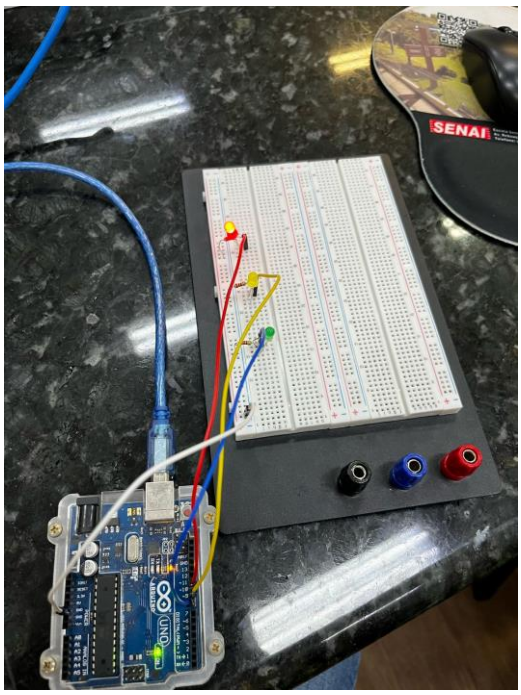
Nome: Gustavo Afonso de Almeida n°07

Primeiro Circuito:



```
void setup() {

  pinMode(8, OUTPUT);
}

void loop() {

  digitalWrite(10, HIGH);
   delay(100);
```

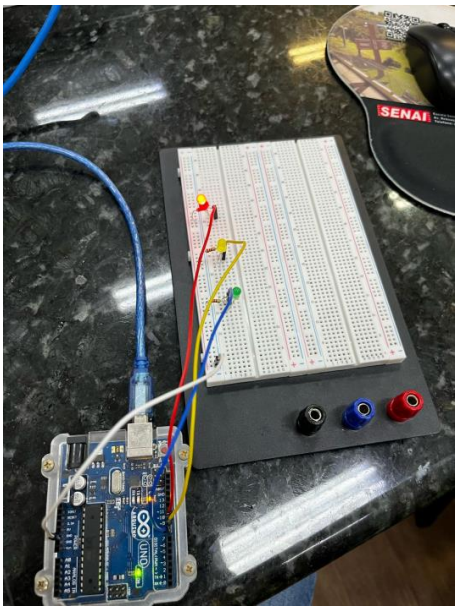
Segundo Circuito:




```
void setup() {

  pinMode(10, OUTPUT);
  pinMode(9, OUTPUT);
  pinMode(8, OUTPUT);

}

void loop() {

  digitalWrite(10, LOW);
  digitalWrite(9, HIGH);
  digitalWrite(8, LOW);
  delay(800);

  digitalWrite(10, HIGH);
```

```
  digitalWrite(9, LOW);
  digitalWrite(8, LOW);
  delay(2500);

  digitalWrite(10, LOW);
  digitalWrite(9, LOW);
  digitalWrite(8, HIGH);
  delay(2500);

}
```

Terceiro Circuito:

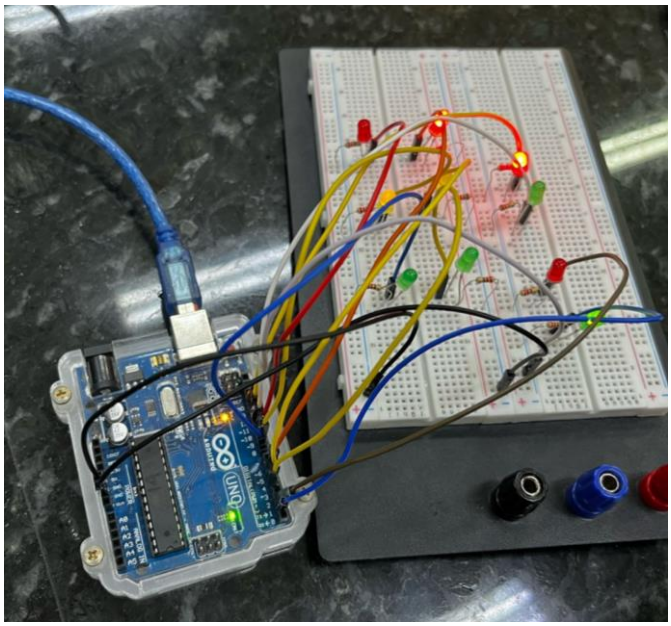


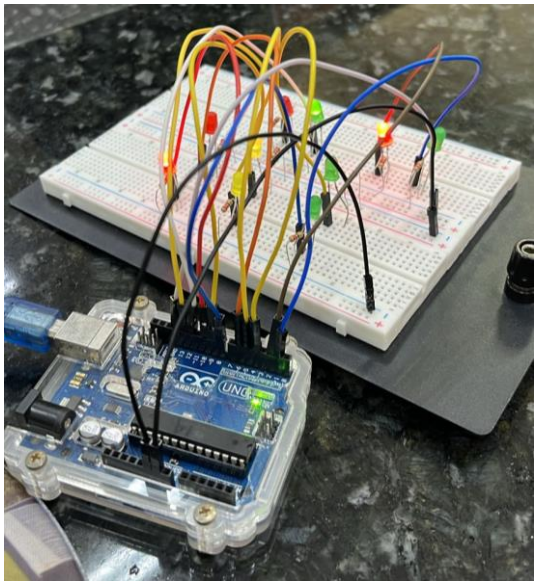

```
void setup() {
```

```
  pinMode(10, OUTPUT); // veremlho
  pinMode(9, OUTPUT); // amarelo
  pinMode(8, OUTPUT); // verde
  pinMode(6, OUTPUT); // vermelho
  pinMode(5, OUTPUT); // amarelo
  pinMode(4, OUTPUT); // verde

}

void loop() {

  digitalWrite(10, HIGH);//SEMÁFORO(1)
  digitalWrite(9, LOW);//SEMÁFORO(1)
  digitalWrite(8, LOW);//SEMÁFORO(1)
  digitalWrite(6, LOW);//SEMÁFORO(2)
  digitalWrite(5, LOW);//SEMÁFORO(2)
  digitalWrite(4, HIGH);//SEMÁFORO(2)
  delay(2500);


  digitalWrite(10, HIGH);//SEMÁFORO(1)
  digitalWrite(9, LOW);//SEMÁFORO(1)
  digitalWrite(8, LOW);//SEMÁFORO(1)
  digitalWrite(6, LOW);//SEMÁFORO(2)
  digitalWrite(5, HIGH);//SEMÁFORO(2)
  digitalWrite(4, LOW);//SEMÁFORO(2)
  delay(2500);


  digitalWrite(10, LOW);//SEMÁFORO(1)VERMELHO
  digitalWrite(9, LOW);//SEMÁFORO(1)AMARELO
```

```
  digitalWrite(8, HIGH);//SEMÁFORO(1)VERDE
  digitalWrite(6, HIGH);//SEMÁFORO(2)VERMELHO
  digitalWrite(5, LOW);//SEMÁFORO(2)AMARELO
  digitalWrite(4, LOW);//SEMÁFORO(2)VERDE
  delay(2500);



  digitalWrite(10, LOW);//SEMÁFORO(1)
  digitalWrite(9, HIGH);//SEMÁFORO(1)
  digitalWrite(8, LOW);//SEMÁFORO(1
  digitalWrite(6, HIGH);//SEMÁFORO(2)
  digitalWrite(5, LOW);//SEMÁFORO(2)
  digitalWrite(4, LOW);//SEMÁFORO(2)
  delay(2500);

}
```

Quarto Circuito:





```
void setup() {

  pinMode(10, OUTPUT); // veremlho
  pinMode(9, OUTPUT); // amarelo
  pinMode(8, OUTPUT); // verde
  pinMode(6, OUTPUT); // vermelho
  pinMode(5, OUTPUT); // amarelo
  pinMode(4, OUTPUT); // verde
  pinMode(2, OUTPUT);//PedestresDireita-Vermelho1
  pinMode(1, OUTPUT);//PedestresDireita-Verde1
  pinMode(13, OUTPUT);//PedestresEsquerda-Vermelho2
  pinMode(12, OUTPUT);//PedestresEsquerda-Verde2
}

void loop()

{

  digitalWrite(10, HIGH);//SEMÁFORO(1)
```

```
digitalWrite(9, LOW);//SEMÁFORO(1)
digitalWrite(8, LOW);//SEMÁFORO(1)
digitalWrite(6, LOW);//SEMÁFORO(2)
digitalWrite(5, LOW);//SEMÁFORO(2)
digitalWrite(4, HIGH);//SEMÁFORO(2)
digitalWrite(2, HIGH);
digitalWrite(1, LOW);
digitalWrite(13, LOW);
digitalWrite(12, HIGH);
delay(2500);


digitalWrite(10, HIGH);//SEMÁFORO(1)
digitalWrite(9, LOW);//SEMÁFORO(1)
digitalWrite(8, LOW);//SEMÁFORO(1)
digitalWrite(6, LOW);//SEMÁFORO(2)
digitalWrite(5, HIGH);//SEMÁFORO(2)
digitalWrite(4, LOW);//SEMÁFORO(2)
digitalWrite(2, HIGH);//verde
digitalWrite(1, LOW);//vermelho
digitalWrite(13, LOW);
digitalWrite(12, HIGH);
delay(2500);

digitalWrite(10, LOW);//SEMÁFORO(1)VERMELHO
digitalWrite(9, LOW);//SEMÁFORO(1)AMARELO
digitalWrite(8, HIGH);//SEMÁFORO(1)VERDE
digitalWrite(6, HIGH);//SEMÁFORO(2)VERMELHO
digitalWrite(5, LOW);//SEMÁFORO(2)AMARELO
digitalWrite(4, LOW);//SEMÁFORO(2)VERDE
digitalWrite(2, LOW);
```

```
  digitalWrite(1, HIGH);
  digitalWrite(13, HIGH);
  digitalWrite(12, LOW);
  delay(2500);


  digitalWrite(10, LOW);//SEMÁFORO(1)
  digitalWrite(9, HIGH);//SEMÁFORO(1)
  digitalWrite(8, LOW);//SEMÁFORO(1
  digitalWrite(6, HIGH);//SEMÁFORO(2)
  digitalWrite(5, LOW);//SEMÁFORO(2)
  digitalWrite(4, LOW);//SEMÁFORO(2)
  digitalWrite(2, LOW);
  digitalWrite(1, HIGH);
  digitalWrite(13, HIGH);
  digitalWrite(12, LOW);
  delay(2500);

}
```