-Código de Arduino IDE, Semáforo Ativado com Botão:

int pushButton = 3;

int redLed = 2;

bool estadoLed = 0;

void setup()

{

pinMode(pushButton, INPUT\_PULLUP);

pinMode(redLed, OUTPUT);

}

void loop()

{

digitalWrite(2, HIGH);

digitalWrite(10, HIGH);

if (digitalRead(pushButton) == (2, LOW) and digitalRead(pushButton) == (10, LOW))

{

estadoLed = !estadoLed;

digitalWrite(redLed, estadoLed);

while (digitalRead(pushButton) == LOW);

digitalWrite(2, LOW);

digitalWrite(11, LOW);

//Ativa vermelho

//Pisca amarelo

digitalWrite(8, HIGH);

digitalWrite(8, HIGH);

delay(2000);

digitalWrite(8, LOW);

digitalWrite(8, LOW);

delay(1000);

digitalWrite(8, HIGH);

digitalWrite(8, HIGH);

delay(2000);

digitalWrite(8, LOW);

digitalWrite(8, LOW);

delay(1000);

digitalWrite(8, HIGH);

digitalWrite(8, HIGH);

delay(2000);

digitalWrite(8, LOW);

digitalWrite(8, LOW);

delay(1000);

digitalWrite(8, HIGH);

digitalWrite(8, HIGH);

delay(2000);

digitalWrite(8, LOW);

digitalWrite(8, LOW);

delay(1000);

digitalWrite(8, HIGH);

digitalWrite(8, HIGH);

delay(2000);

digitalWrite(8, LOW);

digitalWrite(8, LOW);

delay(1000);

//Ativa verde

digitalWrite(10, HIGH);

digitalWrite(9, HIGH);

delay(10000);

digitalWrite(10, LOW);

digitalWrite(9 , LOW);

delay(10000);

}

}