

De MBlock à Arduino

Activité de Mblock à Arduino

Site vittascience

Corrigé

Feu avec gestion piéton

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```
// C++ code
//
int appel_pieton;
int btn;

void eteindre_feux() {
  digitalWrite(5, LOW);
  digitalWrite(6, LOW);
  digitalWrite(7, LOW);
  digitalWrite(8, LOW);
}

void gerer_pieton() {
  btn = digitalRead(4);
  if (btn == HIGH) {
    appel_pieton = 1;
  }
}

void gerer_feu(int pin, int temps_s) {
  eteindre_feux();
  if (pin == 5 and appel_pieton == 1) {
    digitalWrite(5, HIGH);
    digitalWrite(8, HIGH);
    delay(2000);
    digitalWrite(8, LOW);
    appel_pieton = 0;
  } else {
    digitalWrite(pin, HIGH);
  }
  delay((temps_s * 1000));
}

void setup() {
  pinMode(4, INPUT);
  pinMode(5, OUTPUT);
}
```

```
pinMode(6, OUTPUT);  
pinMode(7, OUTPUT);  
pinMode(8, OUTPUT);  
}  
  
void loop() {  
  gerer_pieton();  
  gerer_feu(5, 5);  
  gerer_feu(6, 5);  
  gerer_feu(7, 1);  
}
```

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Last update: **2024/09/20 07:14**

