

# FICHE TP N°6

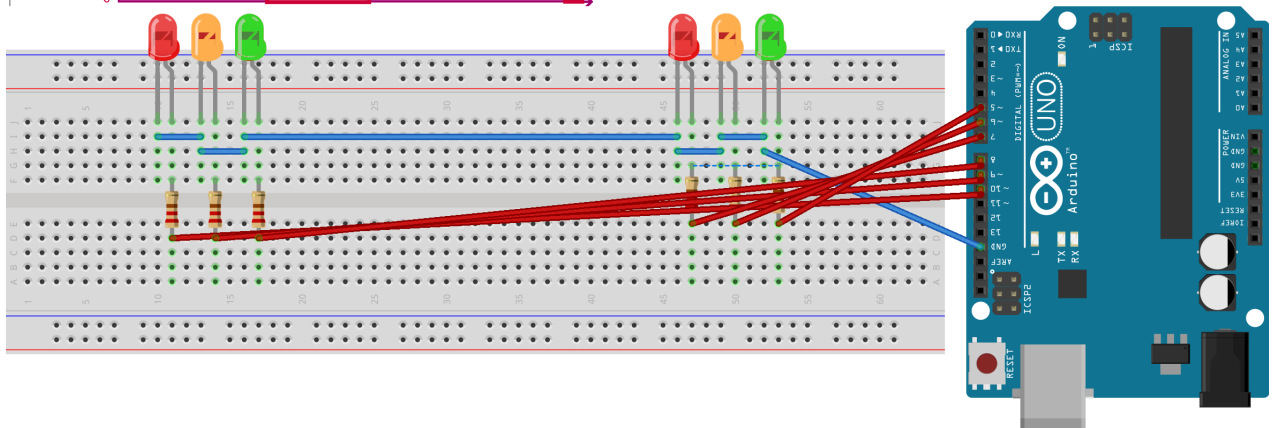
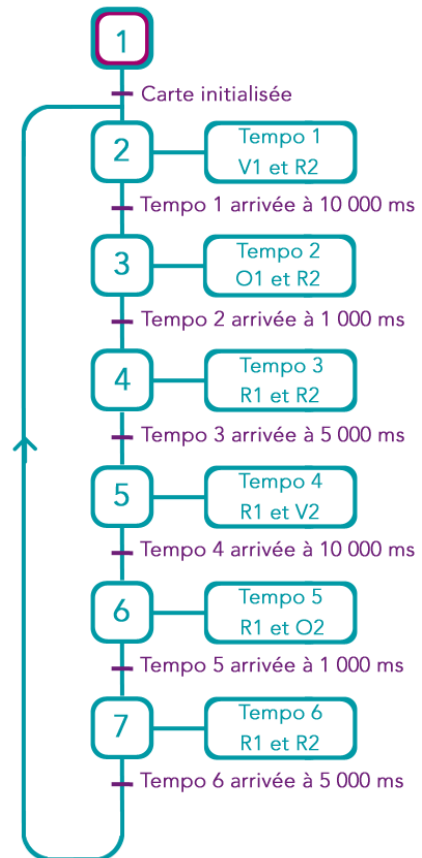
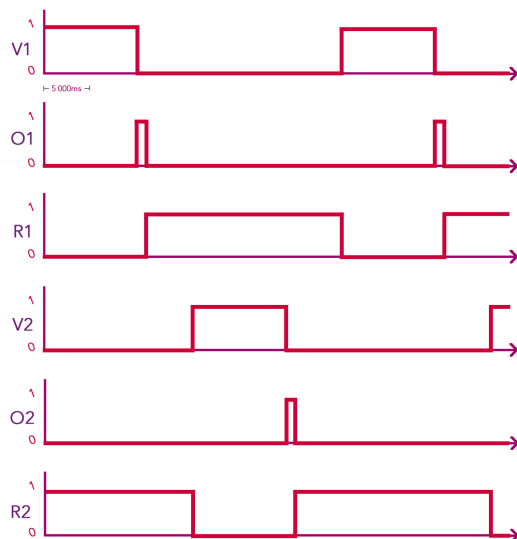
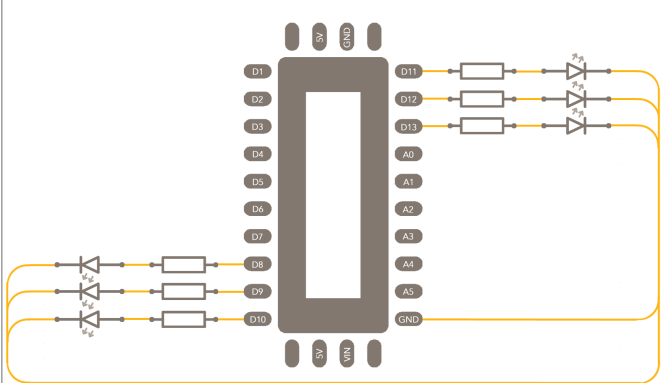
Une application en modélisme :

## Composants nécessaires :

- ▶ Trois LED vertes
- ▶ Trois LED oranges
- ▶ Trois LED rouges
- ▶ Six résistances de 250Ω

## Objectif :

Pour nous projeter dans l'application de la programmation en modélisme, ce TP vous propose de réaliser la gestion des feux tricolores d'un carrefour routier, selon le chronogramme suivant :



```
const int V1 = 10;
const int O1 = 9;
const int R1 = 8;
const int V2 = 7;
const int O2 = 6;
const int R2 = 5;
```

```
int val1, val2, val3;
```

```
void setup() {
```

```
pinMode(V1, OUTPUT);
pinMode(O1, OUTPUT);
pinMode(R1, OUTPUT);
pinMode(V2, OUTPUT);
pinMode(O2, OUTPUT);
pinMode(R2, OUTPUT);
```

```
val1 = 10000;
val2 = 1000;
val3 = 5000;
}
```

```
void loop() {
```

```
digitalWrite(V1, HIGH);
digitalWrite(R2, HIGH);
delay(val1);
digitalWrite(V1, LOW);
digitalWrite(O1, HIGH);
delay(val2);
digitalWrite(O1, LOW);
digitalWrite(R1, HIGH);
delay(val3);
digitalWrite(R2, LOW);
digitalWrite(V2, HIGH);
delay(val1);
digitalWrite(V2, LOW);
digitalWrite(O2, HIGH);
delay(val2);
digitalWrite(O2, LOW);
digitalWrite(R2, HIGH);
delay(val3);
digitalWrite(R1, LOW);
}
```