Basic Code for four way traffic light

```
//defining pin numbers
#define yellow1 12
#define green1  11
#define red1    13
#define red2    10
#define yellow2  9
#define green2   8
#define red3     7
#define yellow3  6
#define green3   5
#define green4   2
#define yellow4  3
#define red4     4
void setup() {
  pinMode(red1,OUTPUT);  //defining outputs
  pinMode(yellow1,OUTPUT);
  pinMode(green1,OUTPUT);
  pinMode(red2,OUTPUT);
  pinMode(yellow2,OUTPUT);
  pinMode(green2,OUTPUT);
  pinMode(red3,OUTPUT);
  pinMode(yellow3,OUTPUT);
  pinMode(green3,OUTPUT);
  pinMode(green4,OUTPUT);
  pinMode(yellow4,OUTPUT);
  pinMode(red4 ,OUTPUT);
}
void loop()
{
  digitalWrite(yellow1,HIGH);  //led will glow
  digitalWrite(red2,HIGH);
  digitalWrite(red3 ,HIGH);
  digitalWrite(green4,HIGH);
  delay(8000);  // Wait for 8000 millisecond(s)
  digitalWrite(yellow1,LOW);  //led will off
  digitalWrite(red2,LOW);
  digitalWrite(red3,LOW);
  digitalWrite(green4,LOW);
  delay(2000);  // Wait for 2000 millisecond(s)
  digitalWrite(green1,HIGH);
  digitalWrite(red2,HIGH);
  digitalWrite(yellow3,HIGH);
  digitalWrite(red4,HIGH);
  delay(8000);  // Wait for 8000 millisecond(s)
  digitalWrite(green1,LOW);
  digitalWrite(red2,LOW);
```

```
  digitalWrite(yellow3,LOW);
  digitalWrite(red4,LOW);
  delay(2000);   // Wait for 2000 millisecond(s)
  digitalWrite(red1,HIGH);
  digitalWrite(yellow2,HIGH);
  digitalWrite(green3,HIGH);
  digitalWrite(red4,HIGH);
  delay(8000);  // Wait for 8000 millisecond(s)
  digitalWrite(red1,LOW);
  digitalWrite(yellow2,LOW);
  digitalWrite(green3,LOW);
  digitalWrite(red4,LOW);
  delay(2000);  // Wait for 2000 millisecond(s)
  digitalWrite(red1,HIGH);
  digitalWrite(green2,HIGH);
  digitalWrite(red3,HIGH);
  digitalWrite(yellow4,HIGH);
  delay(8000);  // Wait for 8000 millisecond(s)
  digitalWrite(red1,LOW);
  digitalWrite(green2,LOW);
  digitalWrite(red3,LOW);
  digitalWrite(yellow4,LOW);
  delay(2000);  // Wait for 2000 millisecond(s)
}
```

Connections in tinkercad