

Project 4 - Traffic Lights

Copy and Paste the code below into the Arduino sketch window. Verify and upload the code to the board.

```
// Project 4 - Traffic Lights

int ledDelay = 10000; // delay in between changes
int redPin = 10;
int yellowPin = 9;
int greenPin = 8;

void setup() {
  pinMode(redPin, OUTPUT);
  pinMode(yellowPin, OUTPUT);
  pinMode(greenPin, OUTPUT);
}
void loop() {

  // turn the red light on

  digitalWrite(redPin, HIGH);
  delay(ledDelay); // wait 5 seconds

  digitalWrite(yellowPin, HIGH); // turn on yellow
  delay(2000); // wait 2 seconds

  digitalWrite(greenPin, HIGH); // turn green on
  digitalWrite(redPin, LOW); // turn red off
  digitalWrite(yellowPin, LOW); // turn yellow off
  delay(ledDelay); // wait ledDelay milliseconds

  digitalWrite(yellowPin, HIGH); // turn yellow on
  digitalWrite(greenPin, LOW); // turn green off
  delay(2000); // wait 2 seconds

  digitalWrite(yellowPin, LOW); // turn yellow off
  // now our loop repeats

}
```