int red = 10;

int yellow = 9;

int green = 8;

2.Next, let’s add the setup function, where’ll we configure the red, yellow and green LEDs to be outputs.

void setup(){

pinMode(red, OUTPUT);

pinMode(yellow, OUTPUT);

pinMode(green, OUTPUT);

}

3 .Now for the difficult part -– the actual logic of a traffic light. Create a separate function for changing the lights

void loop(){

changeLights();

delay(15000);

}

void changeLights(){

// green off, yellow on for 3 seconds

digitalWrite(green, LOW);

digitalWrite(yellow, HIGH);

delay(3000);

// turn off yellow, then turn red on for 5 seconds

digitalWrite(yellow, LOW);

digitalWrite(red, HIGH);

delay(5000);

// red and yellow on for 2 seconds (red is already on though)

digitalWrite(yellow, HIGH);

delay(2000);

// turn off red and yellow, then turn on green

digitalWrite(yellow, LOW);

digitalWrite(red, LOW);

digitalWrite(green, HIGH);

delay(3000);

}