IOT WITH AI PRACTICAL NO 7: SOURCE CODE:

```
// Pin definitions for the LEDs
const int redLED = 9;
const int yellowLED = 8;
const int greenLED = 7;
void setup() {
  // Set the LED pins as OUTPUT
  pinMode(redLED, OUTPUT);
  pinMode(yellowLED, OUTPUT);
  pinMode(greenLED, OUTPUT);
}
void loop () {
 // Green light ON for 5 seconds (simulating go signal)
  digitalWrite(greenLED, HIGH); // Turn on green light
  digitalWrite(yellowLED, LOW); // Ensure yellow is off
  digitalWrite(redLED, LOW); // Ensure red is off
  delay(5000);
                                 // Wait for 5 seconds
```

```
// Yellow light ON for 2 seconds (simulating caution signal)
digitalWrite(greenLED, LOW);  // Turn off green light
digitalWrite(yellowLED, HIGH);  // Turn on yellow light
delay(5000);  // Wait for 2 seconds

// Red light ON for 5 seconds (simulating stop signal)
digitalWrite(yellowLED, LOW);  // Turn off yellow light
digitalWrite(redLED, HIGH);  // Turn on red light
delay(5000);  // Wait for 5 seconds

// Repeat the cycle
}
```

OUTPUT:

