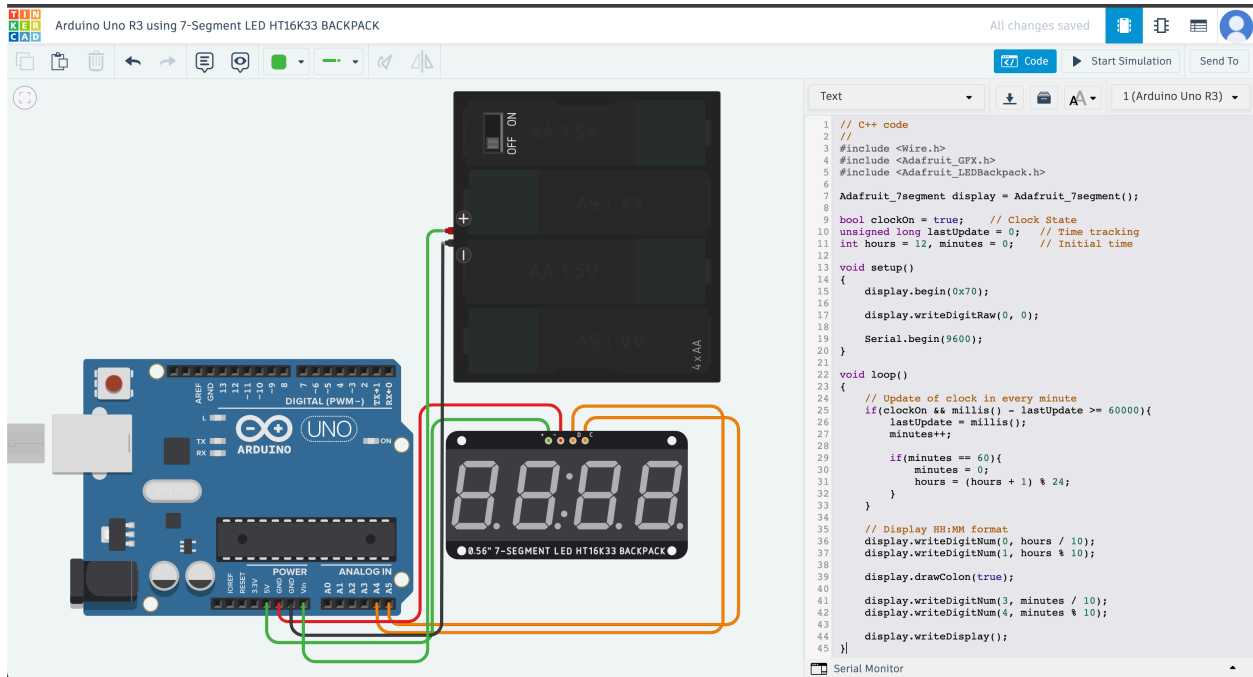


Arduino Uno R3 using 7-Segment LED HT16K33 BACKPACK

Image:



Code:

```
// C++ code
//
#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_LEDBackpack.h>

Adafruit_7segment display = Adafruit_7segment();

bool clockOn = true; // Clock State
unsigned long lastUpdate = 0; // Time tracking
int hours = 12, minutes = 0; // Initial time

void setup()
{
    display.begin(0x70);

    display.writeDigitRaw(0, 0);

    Serial.begin(9600);
}

void loop()
{
    // Update of clock in every minute
    if(clockOn && millis() - lastUpdate >= 60000){
```

```
        lastUpdate = millis();
        minutes++;

        if(minutes == 60){
            minutes = 0;
            hours = (hours + 1) % 24;
        }
    }

    // Display HH:MM format
    display.writeDigitNum(0, hours / 10);
    display.writeDigitNum(1, hours % 10);

    display.drawColon(true);

    display.writeDigitNum(3, minutes / 10);
    display.writeDigitNum(4, minutes % 10);

    display.writeDisplay();
}
```