

IDE 2.3.3

h Tools Help

Arduino Uno

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
#include "HX711.h"

// HX711 setup for weight measurement
const int LOADCELL_DOUT_PIN = 3; // DT pin of HX711
const int LOADCELL_SCK_PIN = 2; // SCK pin of HX711
HX711 scale;
float calibration_factor = -23440.94; // Replace with your calibrated factor

// Ultrasonic sensor setup for height measurement
const int TRIG_PIN = 7; // Trig pin of HC-SR04
const int ECHO_PIN = 6; // Echo pin of HC-SR04
float initial_height_cm = 0.0;
bool initialHeightMeasured = false;

// LCD setup
LiquidCrystal_I2C lcd(0x27, 16, 2); // Adjust address if necessary

void setup() {
  Serial.begin(9600);
  Serial.println("BMI Calculator");
}
```

Serial Monitor x

(Enter to send message to 'Arduino Uno' on 'COM9')

```
14.933 -> BMI: 0.26
15.030 -> Category: Underweight
15.030 -> -----
19.742 -> Weight: 58.46 kg
23.768 -> Height: 1.28 m
27.812 -> BMI: 35.42
27.812 -> Category: Obesity
27.910 -> -----
32.604 -> Weight: -0.00 kg
36.637 -> Height: -0.01 m
40.664 -> Invalid height reading.
```

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