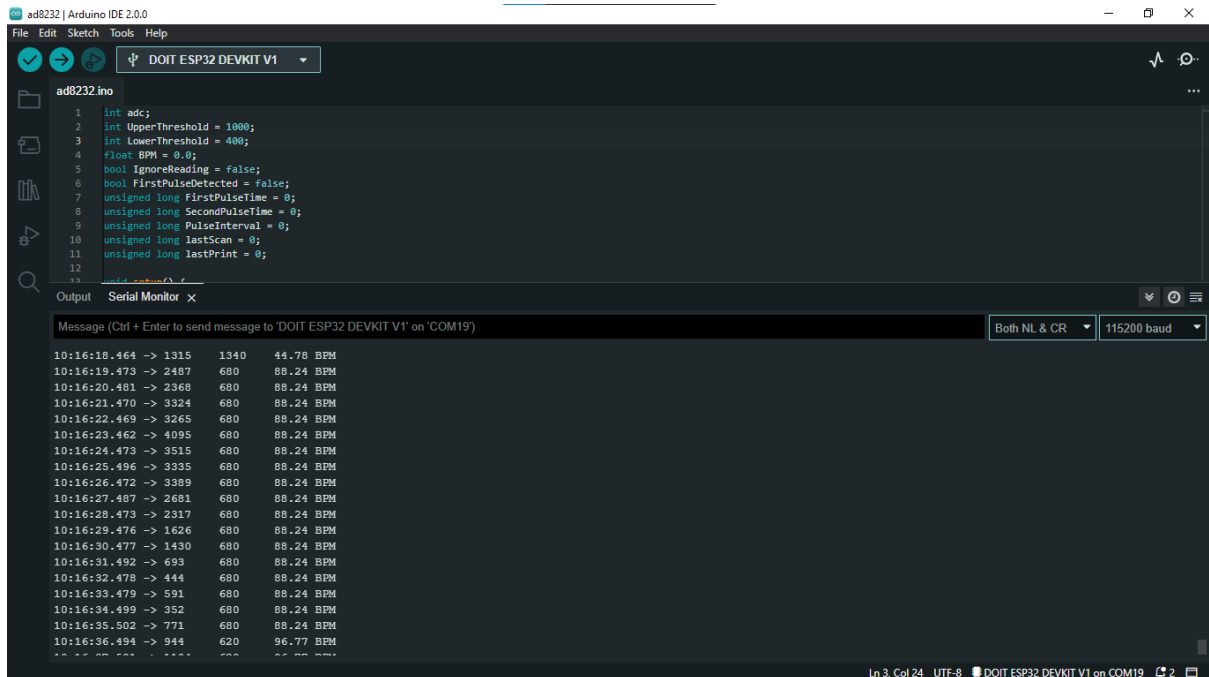


## Hasil pengukuran BPM melalui perhitungan interval R-R program



The screenshot shows the Arduino IDE interface with the sketch 'DOIT ESP32 DEVKIT V1' open. The code in the editor defines variables for heart rate monitoring, including thresholds, a float for BPM, and unsigned long variables for pulse timing. The Serial Monitor displays the output of the program, showing a series of timestamps, raw ADC values, and calculated BPM values. The BPM values are mostly 88.24, with a final value of 96.77.

```
1 int adc;
2 int UpperThreshold = 1000;
3 int LowerThreshold = 400;
4 float BPM = 0.0;
5 bool IgnoreReading = false;
6 bool FirstPulseDetected = false;
7 unsigned long FirstPulseTime = 0;
8 unsigned long SecondPulseTime = 0;
9 unsigned long PulseInterval = 0;
10 unsigned long lastScan = 0;
11 unsigned long lastPrint = 0;
12
13 void setup() {
14   // Serial.begin(115200);
15 }
```

Serial Monitor Output:

Timestamp	ADC Value	BPM
10:16:18.464	1315	44.78 BPM
10:16:19.473	2487	88.24 BPM
10:16:20.481	2368	88.24 BPM
10:16:21.470	3324	88.24 BPM
10:16:22.469	3265	88.24 BPM
10:16:23.462	4095	88.24 BPM
10:16:24.473	3515	88.24 BPM
10:16:25.496	3335	88.24 BPM
10:16:26.472	3389	88.24 BPM
10:16:27.487	2681	88.24 BPM
10:16:28.473	2317	88.24 BPM
10:16:29.476	1626	88.24 BPM
10:16:30.477	1430	88.24 BPM
10:16:31.492	693	88.24 BPM
10:16:32.478	444	88.24 BPM
10:16:33.479	591	88.24 BPM
10:16:34.499	352	88.24 BPM
10:16:35.502	771	88.24 BPM
10:16:36.494	944	96.77 BPM

## Hasil pengukuran BPM melalui alat ukur

