```
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
BlynkTimer timer;
char auth[] = "4RMiHGLVCCn21dx09xVdc4wWWHPpjU_1";
char ssid[] = "Iva";
char pass[] = "82980740";
#include <DHT.h>
//Constants
#define DHTPIN 2 // what pin we're connected to
#define DHTTYPE DHT11 // DHT 11 (AM2302)
// Initialize DHT sensor for normal 16mhz Arduino
DHT dht(DHTPIN, DHTTYPE);
float temp;

int sensorPin = A0;                          // A0 is the input pin for the heart rate sensor

float sensorValue = 0;                        // Variable to store the value coming from the sensor

int count = 9;

unsigned long starttime = 0;

int heartrate = 0;

boolean counted = false;



void sendSensor()
{


starttime = millis();



while (millis()<starttime+10000)                  // Reading pulse sensor for 10 seconds

{

sensorValue = analogRead(sensorPin);

if (sensorValue > 550 && counted == false)  // Threshold value is 550 (~ 2.7V)

{

count++;

Serial.print ("count = ");

Serial.println (count);

digitalWrite (13,HIGH);

delay (50);

digitalWrite (13, LOW);

counted = true;
```

```
}
else if (sensorValue < 550)
{
counted = false;
digitalWrite (13, LOW);
}
}

heartrate = count*6;                    // Multiply the count by 6 to get beats per minute
Serial.println ();
Serial.print ("BPM = ");
Serial.println (heartrate);             // Display BPM in the Serial Monitor
Serial.println ();
count = 0;

temp= dht.readTemperature();

Blynk.virtualWrite(V0,heartrate);
Blynk.virtualWrite(V1,temp);

if(temp>40||heartrate>100||heartrate<50)
{digitalWrite(D0,HIGH);
Blynk.notify("ALERT !!!");
}
}
void setup()
{pinMode(D0,OUTPUT);
Serial.begin(9600);
Blynk.begin(auth, ssid, pass);
timer.setInterval(1000L, sendSensor);
}
void loop()
{
Blynk.run();
timer.run();
sendSensor();
}
```