ESP 32 CODE

```cpp
int count=0;int ave;
#define BLYNK_PRINT Serial
#include <WiFi.h>
#include <WiFiClient.h>
#include <BlynkSimpleEsp32.h>


#define BLYNK_TEMPLATE_ID "TMPL3Cwdc9AHm"
#define BLYNK_TEMPLATE_NAME "EV CHARGING"
#define BLYNK_AUTH_TOKEN "EG0N5i7fvTlzZBAhL_j_GwnYs-FEWQk7"

char auth[] = BLYNK_AUTH_TOKEN;

// Your WiFi credentials.
// Set password to "" for open networks.
char ssid[] = "IOT";
char pass[] = "123456789";


#define cv1 35
#define bv1 32
float cv, bv,act=0;
void setup() {
  // put your setup code here, to run once:
  Serial.begin(9600);
  pinMode(cv1, INPUT);
  pinMode(bv1, INPUT);
    Blynk.begin(auth, ssid, pass, "blynk.cloud", 80);
}

void loop() {
  // put your main code here, to run repeatedly:

  cv = analogRead(cv1);
  Serial.print("cv : ");
  Serial.println(cv);


   //bv=map(bv,1050,1750,0,100);


 for(int i=0;i<10;i++)
 {
  bv =+ analogRead(bv1);

 }
```

```
ave=(int)bv/10;
  Serial.print("ave : ");
ave=ave/2;
      delay(500);
 if(cv>=1501)
 {
     Blynk.virtualWrite(V4,"CHARGING ");
     Serial.println("=================CHARGING ");
     delay(500);


     Blynk.virtualWrite(V3,ave);
     count=0;
 }
else if(cv<=1500)
{
  count++;

}
if(count>=10){
  Serial.println("---------------NOT charginh");
    Blynk.virtualWrite(V4,"            ");}

  Serial.println("count : ");
   Serial.print(count);
   Blynk.virtualWrite(V3,ave);
}




Node MCU code

//e3049iot@gotgel.org
//Info@2024
#include <SoftwareSerial.h>
SoftwareSerial mySerial(D7, D4);/* (Rx, Tx) */

#define BLYNK_PRINT Serial
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>


#define BLYNK_TEMPLATE_ID "TMPL3Cwdc9AHm"
#define BLYNK_TEMPLATE_NAME "EV CHARGING"
#define BLYNK_AUTH_TOKEN "EG0N5i7fvTIzZBAhL_j_GwnYs-FEWQk7"

char auth[] = BLYNK_AUTH_TOKEN;
```

```cpp
// Your WiFi credentials.
// Set password to "" for open networks.
char ssid[] = "IOT";
char pass[] = "123456789";


#include <LCD_I2C.h>
LCD_I2C lcd(0x27);

#include <EveryTimer.h>
#define PERIOD_MS 1000
EveryTimer timer;
bool active = true;

float f;
unsigned char a[50];
unsigned int val1, val2, val3, val4, val5, val6, val7;
unsigned int m = 0;
unsigned char a1 = 0, a2 = 0, a3 = 0, a4 = 0, a5 = 0;
char inChar;


#define solareb D6
#define onoff D5
int count1 = 0, act = 0;
int count = 0;// count = 0
char input[12];
char readera[] = "4D0098A10D79";
char readerb[] = "540024BCE824";
char readerc[] = "54002669F5EE";
char readerd[] = "540024019CED";
boolean flag = 0;
int sec = 0, amount = 0;
#define sv1 A0
float sv, bv;
void setup() {
  // put your setup code here, to run once:
  Serial.begin(9600);
  mySerial.begin(9600);
  lcd.begin();
  lcd.backlight();
  pinMode(sv1, INPUT);
  pinMode(solareb, OUTPUT);
  pinMode(onoff, OUTPUT);
  digitalWrite(onoff, HIGH);
  digitalWrite(solareb, LOW);
  timer.Every(PERIOD_MS, action);
```

```
      lcd.setCursor(0, 0);
   lcd.print("EV CHARGING");
      lcd.setCursor(0, 1);
   lcd.print("STATIONS VEHICLE");
      Blynk.begin(auth, ssid, pass, "blynk.cloud", 80);
      lcd.clear();
}

void loop() {
  // put your main code here, to run repeatedly:
//Blynk.virtualWrite(V4,"S: "+String(val1)+" CO: "+String(val2)+"M: "+String(val3)+"T:
"+String(val4)+"W:"+String(kg));

  Blynk.virtualWrite(V1,"                          ");
  //digitalWrite(onoff, LOW);
  Serial.println("val1 ;  ");
     Serial.print(val1 );
 bv = (float)val1 / 100;
   Serial.println("bv :  ");
     Serial.print(bv );
 if (mySerial.available())
 {
   count = 0;
   while (mySerial.available() && count < 12)        // Read 12 characters and store them in
input array
   {
     input[count] = mySerial.read();
     count++;
     delay(5);
   }
   Serial.print(input);                   // Print RFID tag number

 }
 if (strncmp(input, readera, 12) == 0)
 {
   Serial.println(" Card 1 Detected");

   count1++;
   delay(500);
   input[0] = '5';

 }


  //RFID 2 .......................................
  if (strncmp(input, readerb, 12) == 0)
  {
    Serial.println("Card 2 Detected");
```

```
//    Blynk.virtualWrite(V1,"NOT MATCH  ID CARD");
//    Blynk.logEvent("msg","NOT MATCH  ID CARD");
      delay(900);
    input[0] = '5';


  }
  if (count1 == 1 && act == 0)
  {
//      lcd.setCursor(13, 0);
//   lcd.print("M:S");
    Serial.print("NAME : ");
    Serial.println("Sivakumar ");
    Serial.print("ID : ");
    Serial.println("713321EC046 ");
    digitalWrite(onoff, LOW);
    delay(200);
    act = 1;
  }
  if (act == 1) {
    timer.Update();
     lcd.setCursor(14, 0);
    lcd.print("M:");
    lcd.setCursor(8, 0);
    lcd.print("A:");
    lcd.setCursor(10, 0);
    lcd.print(amount);
     lcd.setCursor(13, 0);
   lcd.print("M:");
       lcd.setCursor(15, 0);
   lcd.print("S");
    Blynk.logEvent("msg","N: Sivakumar: ID : 713321EC046");
    Blynk.virtualWrite(V1,"N: Sivakumar: ID : 713321EC046");
    //Blynk.virtualWrite(V2,"A: "+String(amount));
  }
  if (count1 == 2)
  {
    Blynk.virtualWrite(V1,"                         ");
    digitalWrite(onoff, HIGH);
    Serial.println("colse: ");
  Blynk.virtualWrite(V1,"              ");
    delay(500);
    count1 = 0;



    amount = 0;
    act = 0;
```

```
     lcd.setCursor(8, 0);
   lcd.print("A:");
   lcd.setCursor(10, 0);
   lcd.print(amount);
  // Blynk.virtualWrite(V2,"A: "+String(amount));


 }
 lcd.setCursor(13, 0);
 lcd.print("M:");
 lcd.setCursor(8, 0);
 lcd.print("A:");

    lcd.setCursor(10, 0);
   lcd.print(amount);

 sv = analogRead(sv1);
 sv = ((sv * 15) / 1000);
 Serial.print("amount : ");

 lcd.setCursor(0,0);
  lcd.print("SV:");
  if(sv<=9){lcd.print("0"); lcd.print(sv);}
  else if( sv <=9){lcd.print(""); lcd.print( sv);}




 lcd.setCursor(0,1);
  lcd.print("BV: ");
  if(bv<=9){lcd.print("00"); lcd.print(bv);}
  else if( bv <=99){lcd.print("0"); lcd.print( bv);}
 else if( bv <=999){lcd.print(""); lcd.print( bv);}
 Blynk.virtualWrite(V2,"   AM:"+ String(amount)+"   SV:"+String(sv)+"   BV:"+String(bv));
  Blynk.run();
 delay(500);
 receive_();
}
void receive_()
{


 while (Serial.available()) {
  // get the new byte:
  inChar = (char)Serial.read();

  a[m] = inChar;
  if (a[0] == '*')
  {
    if (m <= 4) {
```

```
      m++;
    }
  }
 }
 m = 5;

 if (m > 1)
 {
  val1 = (a[1]-0x30)*1000 + (a[2]-0x30)*100  + (a[3]-0x30)*10 +(a[4]-0X30);delay(100);
  //val2 = (a[4]-0x30)*100 + (a[5]-0x30)*10  + (a[6] - 0x30);


  m = 0;

 }
}
void action()
{
 amount = amount + 2;
}
BLYNK_WRITE(V0)
{
 int button = param.asInt(); // read button
 if (button == 1)
 {
digitalWrite(solareb,HIGH);
///Blynk.virtualWrite(V2,"A: "+String(amount));

 lcd.setCursor(15, 0);
  lcd.print("E");
 }
 else
 {
  lcd.setCursor(15, 0);
  lcd.print("S");
 digitalWrite(solareb, LOW);
 }
 }
```

Pico code

```
//e2799iot@fthcapital.com
//Info@2024
```

```
#define sv1 27
#define bv1 26

float sv,bv,wind;
int pt2,send1,send2,send3;


void setup()
{
   Serial.begin(9600);


   //pinMode(sv1,INPUT);
   pinMode(bv1,INPUT);

   Serial1.setTX(16);
   Serial1.setRX(17);
   Serial1.begin(9600);




}

void loop()
{


//sv =analogRead(sv1);
//Serial.print("analog sV : ");
//Serial.println(sv);
//sv=((sv*30)/1000);


//Serial.print(" convern sv: ");
//Serial.println(sv);



bv =analogRead(bv1);
Serial.print("analog bv : ");
Serial.println(bv);

bv=((bv*16)/1000);
```

```
Serial.print("convern bv : ");
Serial.println(bv);

//send1=sv*100;
send1=bv*100;
 Serial.print("send1 bv : ");
Serial.println(send1);

senddata();
delay(900);



}

void senddata()
{
 Serial1.print('*');

if( send1<=9){Serial1.print("000"); Serial1.print( send1);}
else if( send1 <=99){Serial1.print("00"); Serial1.print(send1);}
else if( send1 <=999){Serial1.print("0");Serial1.print( send1);}
else if( send1 <=9999){Serial1.print("");Serial1.print( send1);}



}
```