**CODING FOR ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM WITH IOT**

#include <LiquidCrystal.h>

int Read\_Voltage = A3;

int Read\_Current = A4;

const int rs = 3, en = 4, d4 = 8, d5 = 9, d6 = 10, d7 = 11;

LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

void setup() {

lcd.begin(16, 2);

lcd.print(" Arduino Watt-meter");

lcd.setCursor(0, 1);

lcd.print(" By-Satish ");

delay(2000);

lcd.clear();

}

void loop() {

float Voltage\_Value = analogRead(Read\_Voltage);

float Current\_Value = analogRead(Read\_Current);

Voltage\_Value = Voltage\_Value \* (5.0/1023.0) \* 6.46;

Current\_Value = Current\_Value \* (5.0/1023.0) \* 0.239;

lcd.setCursor(0, 0);

lcd.print("V="); lcd.print(Voltage\_Value);

lcd.print(" ");

lcd.print("I=");lcd.print(Current\_Value);

float Power\_Value = Voltage\_Value \* Current\_Value;

lcd.setCursor(0, 1);

lcd.print("Power="); lcd.print(Power\_Value);

delay(200);

}