#code for sensor working

#include<LiquidCrystal-I2C.h>

liquidCrystal-I2C lcd(0\*27,20,4)

float cm;

float inches;

#define ECHO-PIN 12

#define TRIG-PIN 13

Float dist;

Void setup()

{

Serial.begin(115200);

Pinmode(LED-BUILTIN,OUTPUT);

Pinmode(TRIG\_PINOUTPUT);

Pinmode(ECHO-PIN,INPUT);

//pir pin

pinMode(34,INPUT);

//ledpins

pinMode(23,OUTPUT);

pinMode(2,OUTPUT);

pinMode(4,OUTPUT);

pinMode(15,OUTPUT);

lcd.init();

lcd.backlight();

lcd.setCursor(1,0);

lcd.print(“”);

}

Float readcmCM()

{

digitalWrite(TRIG-PIN,LOW);

delayMicroseconds(2);

digitalWrite(TRIG-PIN,HIGH);

delayMicroseconds(10);

digitalWrite(TRIG-PIN,LOW);

int duration=pulseIn(ECHO-PIN,HIGH);

return duration\*0.034/2;

}

Void loop()

{

If(digitalRead(34))

{

Serial.println(“Motion Detected”);

Serial.println(“Lid Opened”);

digitalWrite(15,HIGH);

delay(1000)

Serial.println(“Lid Closed”)

}

Else

{

digitalWrite(10,LOW);

}

If(cm<=100)

{

digitalWrite(2,HIGH);

Serial.println(“High Alert!!!,Trash bin is about tobe full”);

digitalWrite(4,LOW);

digitalWrite(23,LOW);

}

Else if (cm>150 && cm <=250)

{

digitalWrite(23,HIGH);

Serial.println(“Bin is Available”);

digitalWrite(2,LOW);

digitalWrite(4,LOW);

}

Else if (cm>250 && cm <=400)

{

digitalWrite(4,HIGH);

Serial.println(“Bin is Available”);

digitalWrite(2,LOW);

digitalWrite(23,LOW);

}

float inches=(cm/2.54);

lcd.setCursor(0,0);

lcd.print(“Inches”);

lcd.setCursor(4,0)

lcd.setCursor(12,0);

lcd.print(“cm”);

lcd.setCursor(1,1);

lcd.print(inches,1);

lcd.setCursor(11,1);

lcd.print(cm,1);

lcd.setCursor(14,1);

delay(1000);

lcd.clear();

}