ARDUINO IDE CODE

int pir=2;

int rojo=12;

int amarillo=11;

int verde=10;

int led=7;

void setup()

{

pinMode(pir,INPUT);

pinMode(led,OUTPUT);

Serial.begin(9600);

pinMode(verde,OUTPUT); //It declares the green pin as output

pinMode(amarillo,OUTPUT);//It declares the yellow pin as output

pinMode(rojo,OUTPUT);

}

void loop()

{

digitalWrite(verde,HIGH); //It turns on the green led

delay(15000); //wait 15 seconds

digitalWrite(verde,LOW); //It turns off the green led

delay(250); //wait 0.25 seconds

digitalWrite(amarillo,HIGH); //It turns on the yellow led

delay(3000); //wait 3 seconds

digitalWrite(amarillo,LOW); //It turns off the yellow led

delay(250); //wait 0.25 seconds

int val = digitalRead(pir);

Serial.println(val);

int val1 = digitalRead(rojo);

digitalWrite(rojo,HIGH); //It turns the red led

unsigned long int redStartTime = millis();

while (millis() - redStartTime <= 15000)// until red is high

{

delay(100);// 1 ms delay then

int val = digitalRead(pir);//read pir sensor

float force\_in\_computer\_units = analogRead(0);//read force sensor

Serial.println(force\_in\_computer\_units);

if (val == HIGH && force\_in\_computer\_units > 300)//if pir is high then make piezzo high

{

digitalWrite(led, HIGH);//piezzo made high

} else {

digitalWrite(led, LOW); //else no piezzo

}

}

digitalWrite(led,LOW);//then piezzo low

digitalWrite(rojo, LOW);//red led low

}