#include <ESP32Servo.h>

//definition of motor pins

#define ena 25

#define in1 26

#define in2 27

#define in3 14

#define in4 13

#define enb 12

void setup() {

//serial monitor for checking values of ir sensor

Serial.begin(9600);

//setting up o/p pin

pinMode(32 , OUTPUT);

pinMode(33 ,OUTPUT);

pinMode(18 ,INPUT);

pinMode(in2,OUTPUT);

pinMode(in1,OUTPUT);

pinMode(ena,OUTPUT);

pinMode(in4,OUTPUT);

pinMode(in3,OUTPUT);

pinMode(enb,OUTPUT);

}

void loop()

{

Serial.println(digitalRead(18));

if ( digitalRead(18)==1){

//buzzer no tone on walking

noTone(32);

//forward

digitalWrite(in2,HIGH);

digitalWrite(in1,LOW);

digitalWrite(in4,HIGH);

digitalWrite(in3,LOW);

analogWrite(ena,150);

analogWrite(enb,150);

}

//avoiding

else if (digitalRead(18)==0){

tone(32 , 2000);

digitalWrite(in2,HIGH);

digitalWrite(in1,LOW);

digitalWrite(in3,HIGH);

digitalWrite(in4,LOW);

analogWrite(ena,0);

analogWrite(enb,0);

delay(1000);

digitalWrite(in1,HIGH);

digitalWrite(in2,LOW);

digitalWrite(in3,HIGH);

digitalWrite(in4,LOW);

analogWrite(ena,200);

analogWrite(enb,200);

delay(500);

digitalWrite(in2,HIGH);

digitalWrite(in1,LOW);

digitalWrite(in3,HIGH);

digitalWrite(in4,LOW);

analogWrite(ena,200);

analogWrite(enb,200);

delay(500);

}

}