AUTOMATIC CAR PARKING ARUDINO PROGRAM

#include

Servo gate;

int slot1 = 5;

int slot2 = 4;

int gateSensor = 3;

int slot1\_l = 13;

int slot2\_l = 12;

int gate\_grn = 11;

int gate\_red = 10;

void setup()

{

gate.attach(7);

pinMode(slot1,INPUT);

pinMode(slot2,INPUT);

pinMode(gateSensor,INPUT);

pinMode(slot1\_l,OUTPUT);

pinMode(slot2\_l,OUTPUT);

pinMode(gate\_grn,OUTPUT);

pinMode(gate\_red,OUTPUT);

Serial.begin(9600);

}

void loop()

{

if( !(digitalRead(gateSensor)) && digitalRead(slot1) && digitalRead(slot2))

{

Serial.println("Welcome, Available: sLOT1, sLOT2"); //print slot1 and slo2 available

digitalWrite(slot1\_l,HIGH);

digitalWrite(slot2\_l,HIGH);

delay(1000);

digitalWrite(gate\_grn,HIGH);

gate.write(75);

}

if( !(digitalRead(gateSensor)) && !(digitalRead(slot1)) && digitalRead(slot2))

{

Serial.println("Welcome, Available: sLOT2"); // slo2 available

digitalWrite(slot1\_l,LOW);

digitalWrite(slot2\_l,HIGH);

delay(1000);

digitalWrite(gate\_grn,HIGH);

gate.write(75);

}

if( !(digitalRead(gateSensor)) && digitalRead(slot1) && !(digitalRead(slot2)))

{

Serial.println("Welcome, Available: sLOT1");

digitalWrite(slot1\_l,HIGH);

digitalWrite(slot2\_l,LOW);

delay(1000);

digitalWrite(gate\_grn,HIGH);

gate.write(75);

delay(100);

}

if( !(digitalRead(gateSensor)) && !(digitalRead(slot1)) && !(digitalRead(slot2)))

{

Serial.println("Welcome, Parking Full");

digitalWrite(slot1\_l,LOW);

digitalWrite(slot2\_l,LOW);

delay(1000);

digitalWrite(gate\_red,HIGH);

delay(100);

digitalWrite(gate\_red,LOW);

delay(100);

digitalWrite(gate\_red,HIGH);

delay(100);

digitalWrite(gate\_red,LOW);

}

if( digitalRead(gateSensor))

{ Serial.println("Welcome");

gate.write(5); //gate close

digitalWrite(slot1\_l,LOW);

digitalWrite(slot2\_l,LOW);

digitalWrite(gate\_red,LOW);

digitalWrite(gate\_grn,HIGH);

delay(100);

digitalWrite(gate\_grn,LOW);

delay(100);

}

}