```
#include <ESP8266WiFi.h>
#include <FirebaseArduino.h>
#include <Servo.h>
// _____________________________defining constant
#define FIREBASE_HOST "summer-project-36c77.firebaseio.com"
#define FIREBASE_AUTH "wTSn5Z6yBZf4LMBvO6SmeV9Z7KaUlEG2l2JTF1OW"
#define WIFI_SSID "JAY_17"
#define WIFI_PASSWORD "vghbnjkm"
// _____________________________variable definied
int angle=0;
Servo test1;
int echo_pin=5;
int trig_pin=6;
int echo_pin1=7;
int trig_pin=8



void setup()
{
  test1.attach(9);
  Serial.begin(9600);
// connect to wifi.
  WiFi.begin(WIFI_SSID, WIFI_PASSWORD);
  Serial.print("connecting");
  while (WiFi.status() != WL_CONNECTED) {
    Serial.print(".");
    delay(500);
  }
  Serial.println();
  Serial.print("connected: ");
  Serial.println(WiFi.localIP());
  Firebase.begin(FIREBASE_HOST, FIREBASE_AUTH);
  Firebase.set("servo",close);

}

void loop()
{
  long duration,distance;
  digitalWrite(trig_pin,LOW);
  delayMicroseconds(20);
  digitalWrite(trig_pin,HIGH);
  delayMicroseconds(20);
  digitalWrite(trig_pin,LOW);
  delayMicroseconds(20);
  duration=pulseIn(echo_pin,HIGH);
  distance=((duration/2)*0.034);
  long duration1,distance1;
  digitalWrite(trig_pin1,LOW);
```

```
  delayMicroseconds(20);
  digitalWrite(trig_pin1,HIGH);
  delayMicroseconds(20);
  digitalWrite(trig_pin1,LOW);
  delayMicroseconds(20);
  duration=pulseIn(echo_pin1,HIGH);
  distance=((duration/2)*0.034);
Serial.println("distance from gate");
Serial.println("distance");
Serial.println("distance from sensor 2");
Serial.println(distance1);
delay(1);

if(distance>15 && distance1>15){
  Firebase.setInt("servo",1);
  test1.write(90);
  Serial.println("Car exit");
  delay(500);
}
elseif (distance<15 || distance1<15){
  Firebase.setInt("servo",1);
  test1.write(0);
  Serial.println("Check for correct slot")
  delay(500);
}
elseif (distance<15 || distance1>15)
{
  Firebase.setInt("servo1",1);
  test1.write(90);
  Serial.println("Entry Accessed")
  delay(500);

}
}
```