TEAM ID: PNT2022TMID14654

NAME: KARTHICK.S

ROLL NO: 111619106059

CODE:

```
// C++ code
//
#include<Servo.h>
#define LED 13
#define FAN 10
#define TEMP A0
#define BUZZER 11
#define PIR 12
#define DOOR 5
#define TRIGGER 6
#define ECHO 7
#define TRIGGER1 9
#define ECHO1 8
Servo S;
void setup()
 Serial.begin(9600);
 pinMode(LED,OUTPUT);
 pinMode(FAN,OUTPUT);
 pinMode(BUZZER,OUTPUT);
 pinMode(PIR,INPUT);
 pinMode(DOOR,OUTPUT);
 pinMode(TRIGGER,OUTPUT);
 pinMode(ECHO,INPUT);
 pinMode(TRIGGER1,OUTPUT);
 pinMode(ECHO1,INPUT);
 S.attach(DOOR);
 S.write(90);
void loop()
```

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```
//Car Garage
digitalWrite(TRIGGER,0);
digitalWrite(TRIGGER,1);
delayMicroseconds(10);
digitalWrite(TRIGGER,0);
float d = pulseIn(ECHO,1);
float l = (d*0.0343)/2;
int m = map(1,0,330,0,255);
if(m \le 50)
 tone(BUZZER,294,700);
 delay(1000);
 noTone(BUZZER);
 Serial.println("Buzzer horn when Car parked");
else
 analogWrite(BUZZER,0);
//Door Open
int z = digitalRead(PIR);
delay(1000);
if(z==1)
 S.write(0);
 Serial.println("Door Opened");
 delay(3000);
 S.write(90);
 delay(1000);
 else
```

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```
{
 S.write(90);
 delay(1000);
digitalWrite(TRIGGER1,0);
digitalWrite(TRIGGER1,1);
delayMicroseconds(10);
digitalWrite(TRIGGER1,0);
float d1 = pulseIn(ECHO1,1);
float 11 = (d1*0.0343)/2;
if(11<330)
 {
  //IN ROOM
 Serial.println("Person in Room");
 digitalWrite(LED,1);
 double a = analogRead(TEMP);
 double t = (((a/1024)*5)-0.5)*100;
 int s = map(t, -40, 120, 0, 255);
 if(s>100)
  analogWrite(FAN,s);
  delay(2000);
}
else
 digitalWrite(LED,0);
 analogWrite(FAN,0);
```

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OUTPUT:

