TEAM ID: PNT2022TMID52802 NAME: SATHEESH KUMAR S

ROLL NO: CITC1904045

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:

