ASSIGNMENT 1

Name	P.SARAN
Project Name	SmartFarmer – IoT Enabled Smart
-	Farming Application
Team ID	PNT2022TMID47823

QUESTION

Make a smart home with 2-3 sensors, LED, Buzzer, in single code and connections. submit it in the platform, any doubts ask in chat with mentor option

CODE

```
void setup()
 pinMode(13, OUTPUT);//led
 pinMode(2, OUTPUT);//buzzer
 pinMode(3, OUTPUT);//trigger
 pinMode(4, INPUT);//echo
 pinMode(5, INPUT);//pir
 pinMode(A5, INPUT);//temp
 Serial.begin(9600);
void loop()
 double a = analogRead(A5);
 double c = (((a/1024)*5)-0.5)*100;
 int pirdude = digitalRead(5);
 digitalWrite(3,LOW);
 digitalWrite(3,HIGH);
 delay(10);
 digitalWrite(3,LOW);
 float dur = pulseIn(4,HIGH);
 float dis = (dur*0.0343)/2;
 int b = digitalRead(5);
 Serial.print(c);
 Serial.print(" C, ");
 Serial.print(dis);
 Serial.print(" dist, ");
 Serial.print(b);
 Serial.print(" pir, ");
 if (dis<200){
  digitalWrite(13,HIGH);
  delay(2000);
  digitalWrite(13,LOW);
 }
 if (c>34.00){
  digitalWrite(2,HIGH);
```

```
delay(2000);
  digitalWrite(2,LOW);
}
if (a==HIGH){
  digitalWrite(2,HIGH);
  delay(3000);
  digitalWrite(2,LOW);
}
```

OUTPUT

