ASSIGNMENT 1

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Project Name	SmartFarmer – IoT Enabled Smart Farming Application
Team ID	PNT2022TMID28579

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(5, OUTPUT);//buzzer
  pinMode(1, OUTPUT);//trigger
  pinMode(2, INPUT);//echo
  pinMode(7, INPUT);//pir
  pinMode(A0, INPUT);//temp
  Serial.begin(9600);
}

void loop()
{
  double a = analogRead(A0);
  double c = (((a/1024)*5)-0.5)*100;
  int pirdude = digitalRead(7);
  digitalWrite(1,LOW);
  digitalWrite(1,HIGH);
  delay(10);
  digitalWrite(1,LOW);
  float dur = pulseIn(2,HIGH);
  float dis = (dur*0.0343)/2;
  int b = digitalRead(7);
  Serial.print(c);
  Serial.print(" C, ");
  Serial.print(dis);
  Serial.print(" dist, ");
  Serial.print(b);
  Serial.print(" pir, ");
  if (dis<200){
    digitalWrite(12,HIGH);
    delay(2000);
    digitalWrite(12,LOW);
  }

  if (c>34.00){
```

```
    digitalWrite(5,HIGH);
   delay(2000);
   digitalWrite(5,LOW);
  }
 if (a==HIGH){
   digitalWrite(5,HIGH);
   delay(3000);
   digitalWrite(5,LOW);
  }
}
```

OUTPUT