ASSIGNMENT 1

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Project Name	SmartFarmer – IoT Enabled Smart Farming Application
Team ID	PNT2022TMID22163

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

```cpp
// C++ code
//

int b = 0;
int celsius = 0;
void setup()
{
 pinMode(12,OUTPUT);
 pinMode(11,OUTPUT);
 pinMode(2,OUTPUT);
 pinMode(3,INPUT);
 pinMode(10,OUTPUT);
 pinMode(A3,INPUT);
 Serial.begin(9600);

}

 void loop()
 {
 b = 40;
 celsius = map(((analogRead(A3) - 20) * 3.04), 0, 1023, -40, 125);
 float dur = pulseIn(3,HIGH);
 float dis =(dur*0.0343)/2;
Serial.println(dis);
Serial.println(celsius);
 if(dis>50.00){

  digitalWrite(10,HIGH);
  digitalWrite(12,HIGH);
  delay(1000);}
 else{
 digitalWrite(10,LOW);
  digitalWrite(12,LOW);
  delay(1000);}

 if(celsius<b){
  digitalWrite(11,HIGH);
```

```
 delay(1000);}
else{
 digitalWrite(11,LOW);
 delay(1000);}

 digitalWrite(10,HIGH);
 delay(1000);
 digitalWrite(10,LOW);
 delay(1000);
 digitalWrite(12,HIGH);
 delay(1000);
 digitalWrite(12,LOW);
 delay(1000);
}
```

OUTPUT