

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

```
// 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

