ASSIGNMENT 1

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| Name | SOWNDHARYASREE.S |
| Project Name | IOT Enabled Smart  Farming Application |
| Team ID | PNT2022TMID20566 |

# 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

