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Assignment -1

C Programming

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Assignment Date	19 September 2022
Student Name	Santhosh.k
Student Roll Number	821219104017
Maximum Marks	2 Marks

Question-1:

Mark a Smart Home With 2-3 Sensors , LED, Buzzer in Single Code and Connections.

Solution

```
#include <LiquidCrystal.h>
 LiquidCrystal lcd(13, 12, 11, 10, 9, 8);

 int sensor_Input;
 float temp;

 void setup() {

  Serial.begin(9600);
  lcd.begin(16, 2);
 }
 void loop() {

  measure_Temp();
  display_Temp();
 }

 void measure_Temp()
 {
  sensor_Input = analogRead(A0);
  temp = (float)sensor_Input / 1024;
  temp = temp * 5;
  temp = temp - 0.5;
  temp = temp * 100;
 }

 void display_Temp()
 {
  lcd.setCursor(0, 0);
  Serial.print("Temp. in Celcius: ");
  Serial.print(temp);
```

```
Serial.println();
lcd.print("Temp. in Celcius: ");
lcd.setCursor(5, 1);
lcd.print(temp);
delay(500);
}
```