

**Assignment -1**  
**C Programming**

Assignment Date	19 September 2022
Student Name	Akilesh.K
Student Roll Number	821219104003
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);  
}
```

