Assignment -1 C Programming

Assignment Date	12 September 2022
Student Name	AHAMED YOONUS ZH
Student Roll Number	962319104007
Maximum Marks	2 Marks

Question-1:

Build an smarthome iot device using an audrino uno microcontroller and attach at least 2 sensors in it .

Program:

```
#include<Servo.h>
Servo servo;
void setup()
  servo.attach(3);
 pinMode(13,0UTPUT);
 pinMode(5,0UTPUT);
void loop()
  //open the window if temp is high
 double input = analogRead(A1);
 double t = (((input/1024)*5)-0.5)*100;
 if(t > 32) servo.write(180);
 else servo.write(0):
 //open windows
 int temp = analogRead(A0);
 if(temp > 552)digitalWrite(13,1);
 else digitalWrite(13,0);
  //turn fan
 if(temp > 40) analogWrite(5,255);
```

Components Used:

1. Temperature sensor

- 2.Servo motor
- 3.LED
- 4.Photoresistor 5.Micro Servo

Wire Connection:

