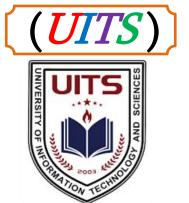
#### UNIVERSITY OF INFORMATION TECHNOLOGY & SCIENCES



# ASSIGNMENT on INTERNET OF THINGS LAB

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## $\prec$ Submitted By $\succ$

#### $extit{\emph{F}}$ AZLAY $extit{\emph{R}}$ ABBI

♦ Department ⇒ CSE

♥ ID 

⇒ 2125051070

⇔ Semester ⇒ Autumn 2024

⇔ Batch ⇒ 50

♦ Section ⇒ 7B1

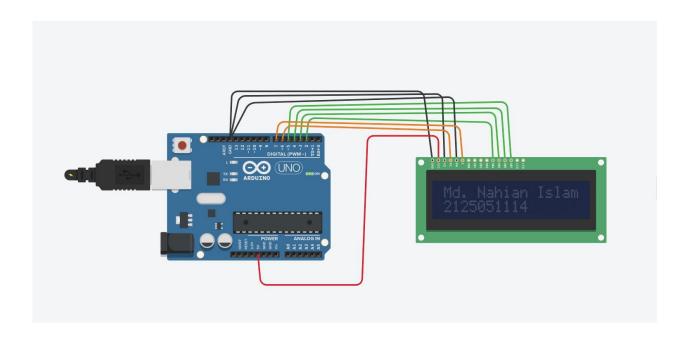
Subject Code 
⇒ CSE 402
⇒ Date of Submission 
⇒ 23.09.2024

Signature

### Display Information using UNO R3

Title: Display your name and student ID in the first and second row respectively of the LCD. Also show them in serial monitor.

Necessary Equipment: 1. Arduino UNO R3 2. 5. 16\*2



#### Code:

```
#include <LiquidCrystal.h>
char a[] = "Md. Nahian Islam";
char id[] = "2125051114";

LiquidCrystal lcd(6,7,2,3,4,5); //Rs,E,D4,d5,D6,D7

void setup()
{
```

```
lcd.begin(16,2);

Serial.begin(9600);
}

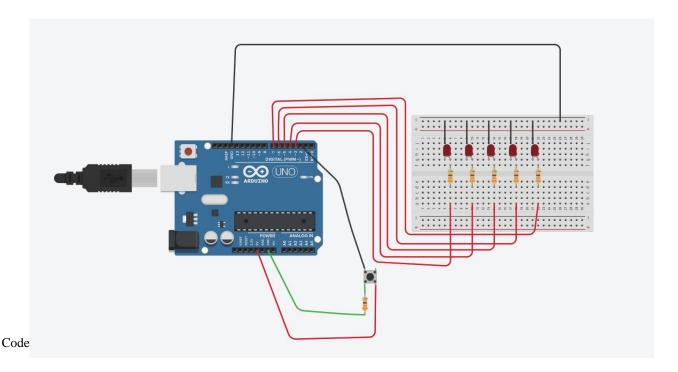
void loop()
{
    lcd.setCursor(0,0);
    lcd.print(a);
    lcd.setCursor(0,1);
    lcd.print(id);
    Serial.println(a);
    delay(1000);
    Serial.println(id);
    delay(1000);
}
```

### Even, odd position light blink

Title: Build a mini LED array project with Arduino where at first the LEDs at odd position will be blinked serially. Then the LEDs at an even position will be blinked serially. Take 5 LED

#### **Necessary Equipment:**

- 1. Arduino UNO R3
- 2. Breakbord
- 3. 330 Ohom resistor
- 4. 5LED



2 int pushButton=2; 3 int odd pos[]={4,6}; 4 int even\_pos[]={3,5,7}; 5 void setup() 6 7 pinMode (pushButton, INPUT); 8 int even arr = 0; 9 int odd arr = 0; 10 for (int i = 0; i < 5; i++) { 11 if(i%2==0){ 12 pinMode(even\_pos[even\_arr], OUTPUT); 13 even arr++; 14 } 15 else{ 16 pinMode (odd pos[odd arr], OUTPUT); 17 odd arr++; 18 19 20 Serial.begin(9600); 21 delay(1000); 22 } 23 void loop() { 24 int inputState= digitalRead(pushButton); 25 if (inputState==HIGH) { 26 for (int i = 0; i < 2; i++) { 27 digitalWrite(odd pos[i], 1); 28 delay(1000); 29 Serial.println(odd pos[i]); 30 delay(1000); 31 digitalWrite(odd pos[i], 0); 32 delay(100); 21 for (int i = 0; i < 3; i++) { 00:53 digitalWrite(even\_pos[i], 1); delay(1000); 0/00:53 Serial.println(even pos[i]);

" Serial Monitor