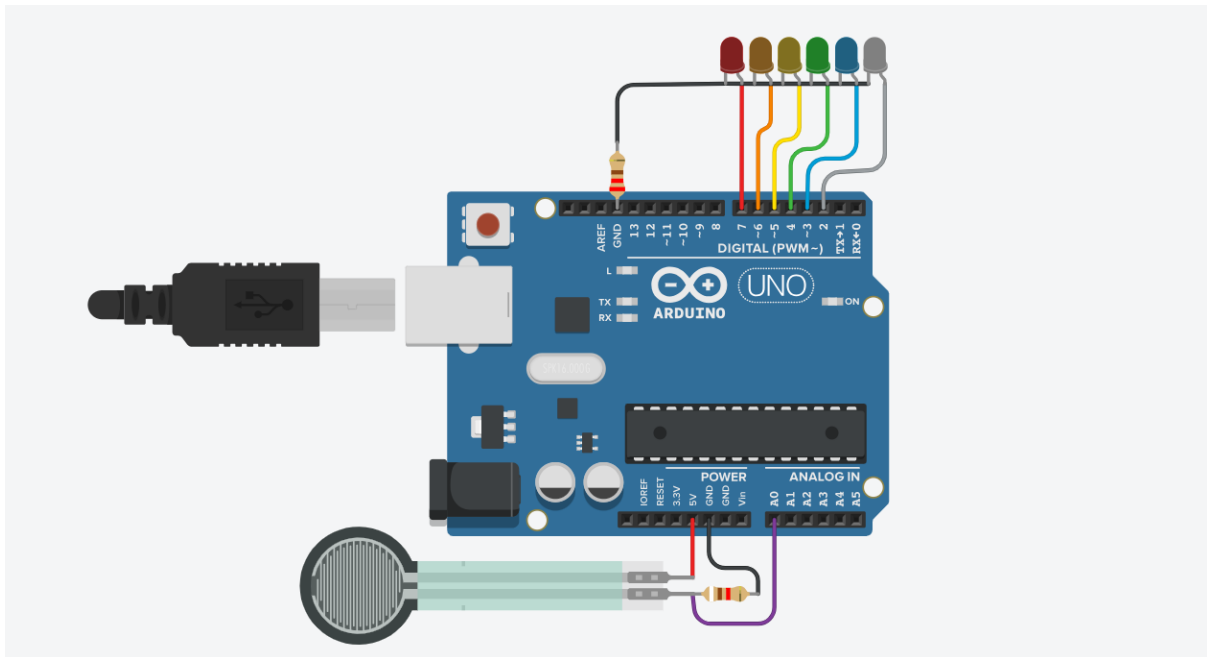


Name: **B. SAI CHARAN**

Roll No: **2203A51L72 (Batch-12)**




EXPERIMENT 5: Interfacing Force Sensor using arduino board



CODE:


```
Text 1 (Arduino Uno R3)
1 #define fsrpin A0
2 #define led1 2
3 #define led2 3
4 #define led3 4
5 #define led4 5
6 #define led5 6
7 #define led6 7
8
9 int fsrreading;
10 void setup() {
11
12     Serial.begin(9600);
13
14     pinMode(led1, OUTPUT);
15     pinMode(led2, OUTPUT);
16     pinMode(led3, OUTPUT);
17     pinMode(led4, OUTPUT);
18     pinMode(led5, OUTPUT);
19     pinMode(led6, OUTPUT);
20 }
21 void loop() {
22
23     fsrreading = analogRead(fsrpin);
24
25     Serial.println(fsrreading);
26
27     if (fsrreading > 200) {
28         digitalWrite(led1, HIGH);
29     }
30     else digitalWrite(led1, LOW);
Serial Monitor
```

Text



1 (Arduino Uno R3)

```
22
23   fsrreading = analogRead(fsrpin);
24
25   Serial.println(fsrreading);
26
27   if (fsrreading > 200) {
28       digitalWrite(led1, HIGH);
29   }
30   else digitalWrite(led1, LOW);
31   if (fsrreading > 450) {
32       digitalWrite(led2, HIGH);
33   }
34   else digitalWrite(led2, LOW);
35   if (fsrreading > 550) {
36       digitalWrite(led3, HIGH);
37   }
38   else digitalWrite(led3, LOW);
39   if (fsrreading > 650) {
40       digitalWrite(led4, HIGH);
41   }
42   else digitalWrite(led4, LOW);
43   if (fsrreading > 800) {
44       digitalWrite(led5, HIGH);
45   }
46   else digitalWrite(led5, LOW);
47   if (fsrreading > 900) {
48       digitalWrite(led6, HIGH);
49   }
50   else digitalWrite(led6, LOW);
51 }
```

 Serial Monitor