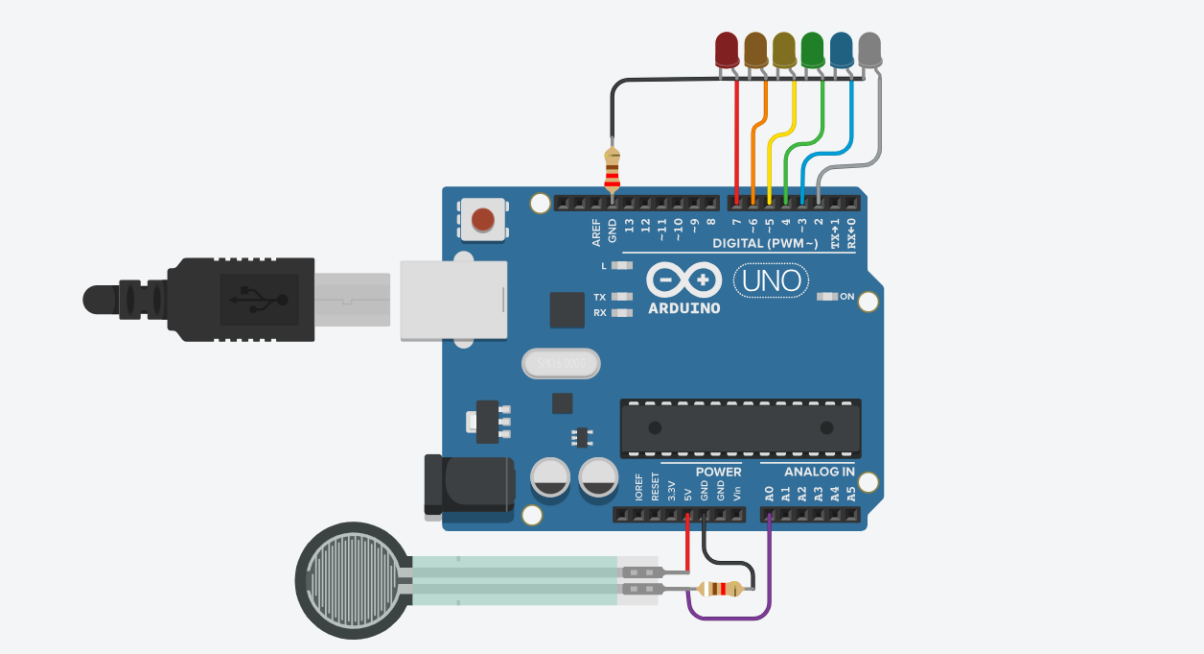
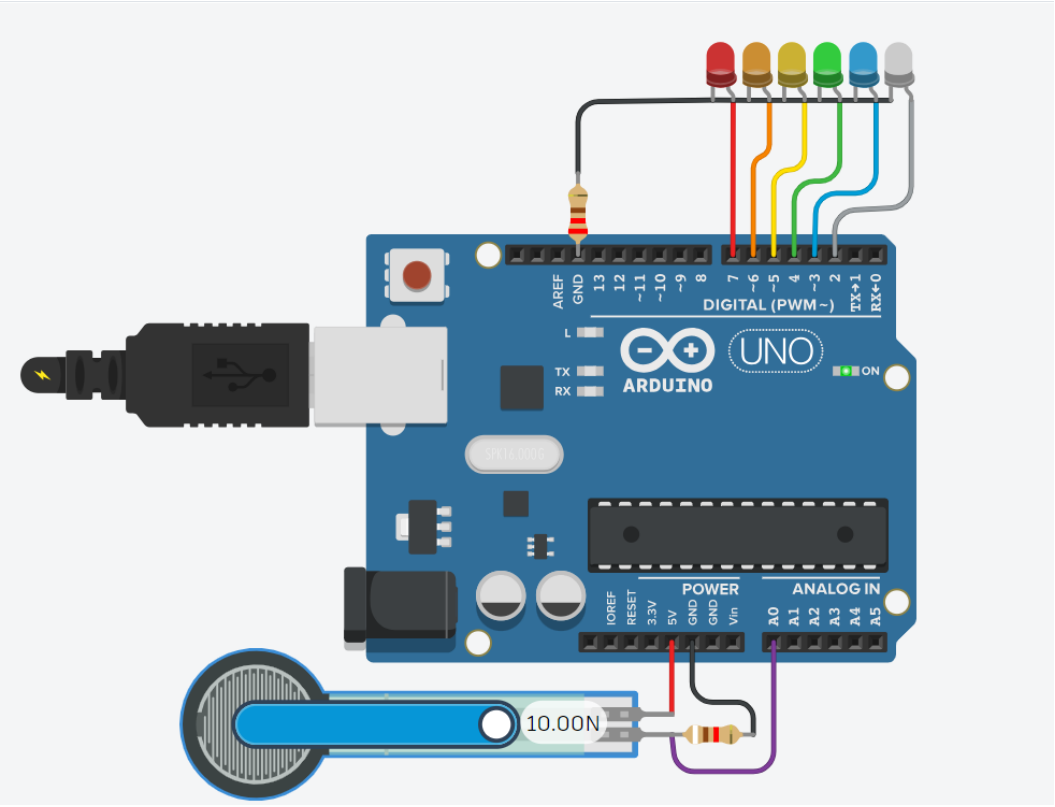
Name: **B. SAI CHARAN**

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

**EXPERIMENT 5: Interfacing Force Sensor using arduino board**



**CODE:**

```
#define fsrpin A0
#define led1 2
#define led2 3
#define led3 4
#define led4 5
#define led5 6
#define led6 7

int fsrreading;
void setup() {

  Serial.begin(9600);

  pinMode(led1, OUTPUT);
  pinMode(led2, OUTPUT);
  pinMode(led3, OUTPUT);
  pinMode(led4, OUTPUT);
  pinMode(led5, OUTPUT);
  pinMode(led6, OUTPUT);
}
void loop() {

  fsrreading = analogRead(fsrpin);

  Serial.println(fsrreading);

  if (fsrreading > 200) {
    digitalWrite(led1, HIGH);
  }
  else digitalWrite(led1, LOW);
```

Serial Monitor

```
  fsrreading = analogRead(fsrpin);

  Serial.println(fsrreading);

  if (fsrreading > 200) {
    digitalWrite(led1, HIGH);
  }
  else digitalWrite(led1, LOW);
  if (fsrreading > 450) {
    digitalWrite(led2, HIGH);
  }
  else digitalWrite(led2, LOW);
  if (fsrreading > 550) {
    digitalWrite(led3, HIGH);
  }
  else digitalWrite(led3, LOW);
  if (fsrreading > 650) {
    digitalWrite(led4, HIGH);
  }
  else digitalWrite(led4, LOW);
  if (fsrreading > 800) {
    digitalWrite(led5, HIGH);
  }
  else digitalWrite(led5, LOW);
  if (fsrreading > 900) {
    digitalWrite(led6, HIGH);
  }
  else digitalWrite(led6, LOW);
}
```

Serial Monitor