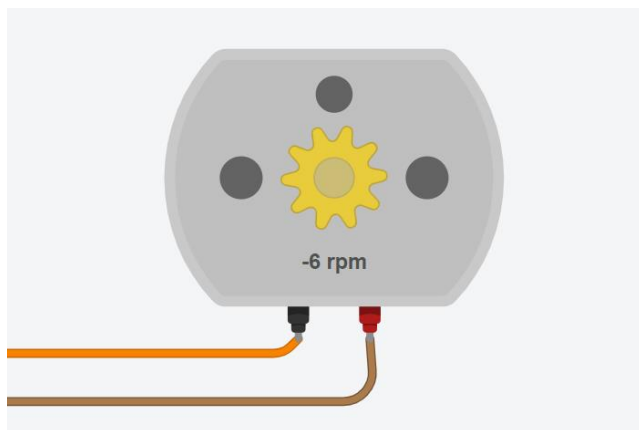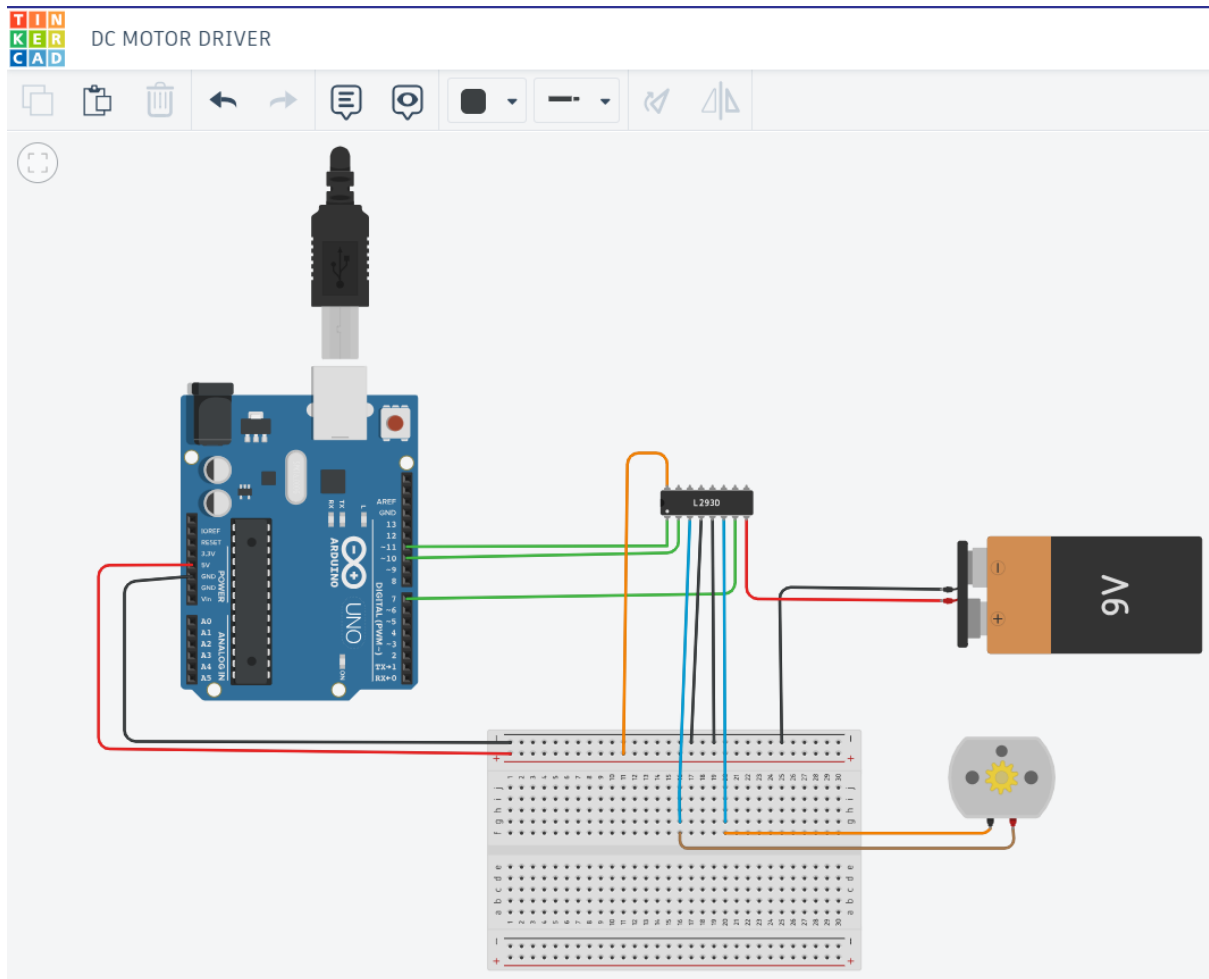Name: **B. SAI CHARAN**

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

EXPERIMENT 9:

Interfacing of the DC MOTOR with Arduino at TinkerCAD.

CODE:

```
1  const int enablePin = 11;
2  const int in1Pin = 10;
3  const int in2Pin = 7;
4  const int speed = 255;
5  void setup() {
6    pinMode(enablePin, OUTPUT);
7    pinMode(in1Pin, OUTPUT);
8    pinMode(in2Pin, OUTPUT);
9
10   Serial.begin(9600);
11
12   digitalWrite(in1Pin, LOW);
13   digitalWrite(in2Pin, LOW);
14 }
15
16 void loop() {
17
18   digitalWrite(in1Pin, HIGH);
19   digitalWrite(in2Pin, LOW);
20   analogWrite(enablePin, speed);
21   Serial.print("Speed: ");
22   Serial.println(speed);
23   delay(2000);
24
25   digitalWrite(in1Pin, LOW);
26   digitalWrite(in2Pin, LOW);
27   delay(1000);
28
29   digitalWrite(in1Pin, LOW);
30   digitalWrite(in2Pin, HIGH);
31   analogWrite(enablePin, speed);
32   Serial.print("Speed: ");
33   Serial.println(speed);
34   delay(2000);
35
36   digitalWrite(in1Pin, LOW);
37   digitalWrite(in2Pin, LOW);
38   delay(1000);
39 }
40
```

Serial Monitor

```
Speed: 255
Speed: 255
Speed: 255
Speed: 255
Speed: 255
Speed: 255
```