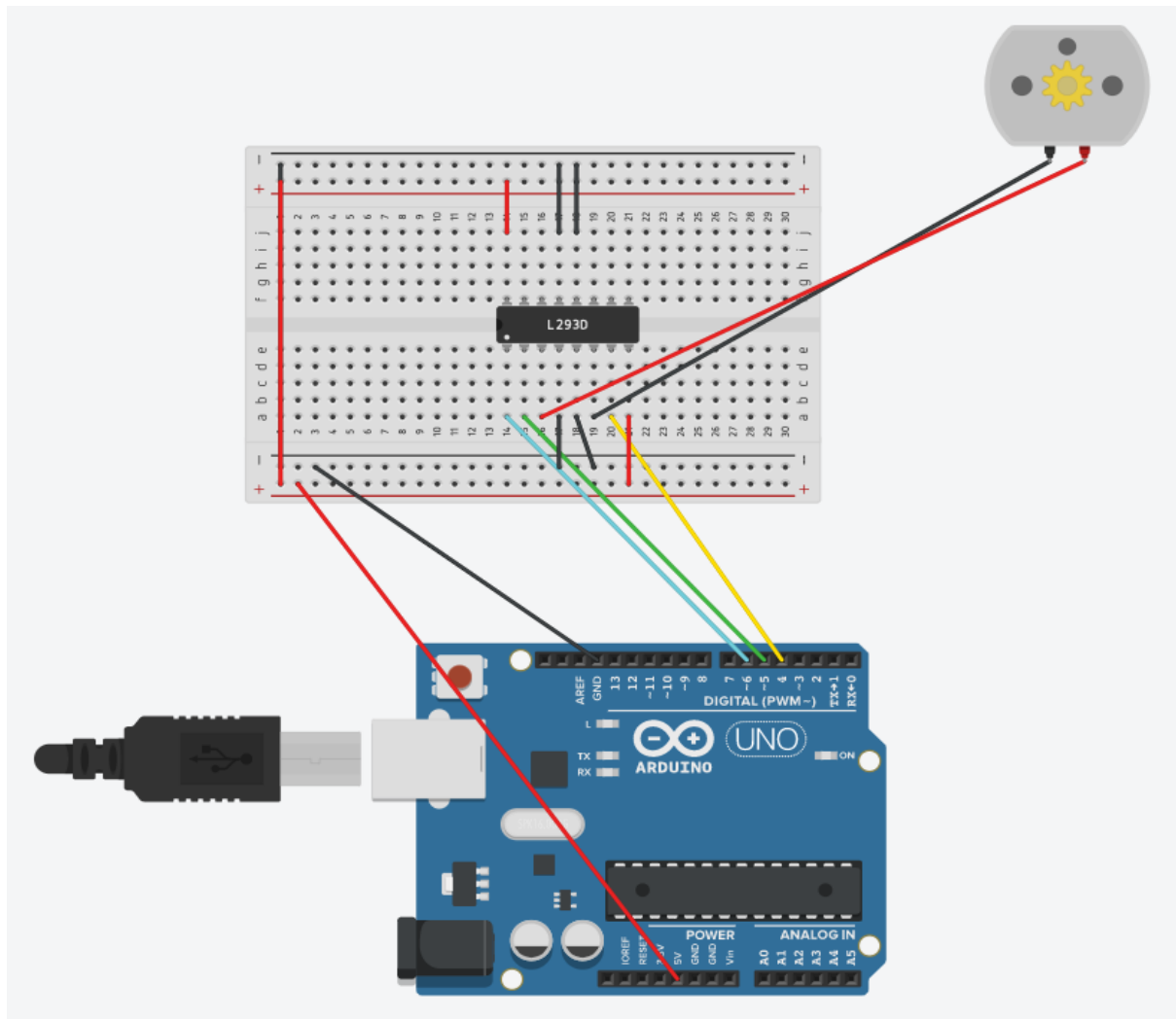


Q1



```
#define MOTOR_D1_PIN 4

#define MOTOR_D2_PIN 5

#define MOTOR_PWM_PIN 6


void setup() {

  Serial.begin(9600);

  pinMode(MOTOR_D1_PIN,OUTPUT);

  pinMode(MOTOR_D2_PIN,OUTPUT);

  pinMode(MOTOR_PWM_PIN,OUTPUT);

}

void loop() {

  delay(1000);
```

```
}
```

```
int work(int run){
```

```
    if (run>0){
```

```
        digitalWrite(MOTOR_D1_PIN,HIGH);
```

```
        digitalWrite(MOTOR_D2_PIN,LOW);
```

```
        analogWrite(MOTOR_PWM_PIN,run);
```

```
    }
```

```
    else if (run ==0){
```

```
        digitalWrite(MOTOR_D1_PIN,HIGH);
```

```
        digitalWrite(MOTOR_D2_PIN,LOW);
```

```
        analogWrite(MOTOR_PWM_PIN,run);
```

```
    }
```

```
    else if (run<0){
```

```
        digitalWrite(MOTOR_D1_PIN,HIGH);
```

```
        digitalWrite(MOTOR_D2_PIN,LOW);
```

```
        analogWrite(MOTOR_PWM_PIN,run);
```

```
    }
```

```
    Serial.print("speed=");
```

```
    Serial.println(run);
```

```
}
```

```
void serialEvent(){
```

```
    int speed = Serial.parseInt();
```

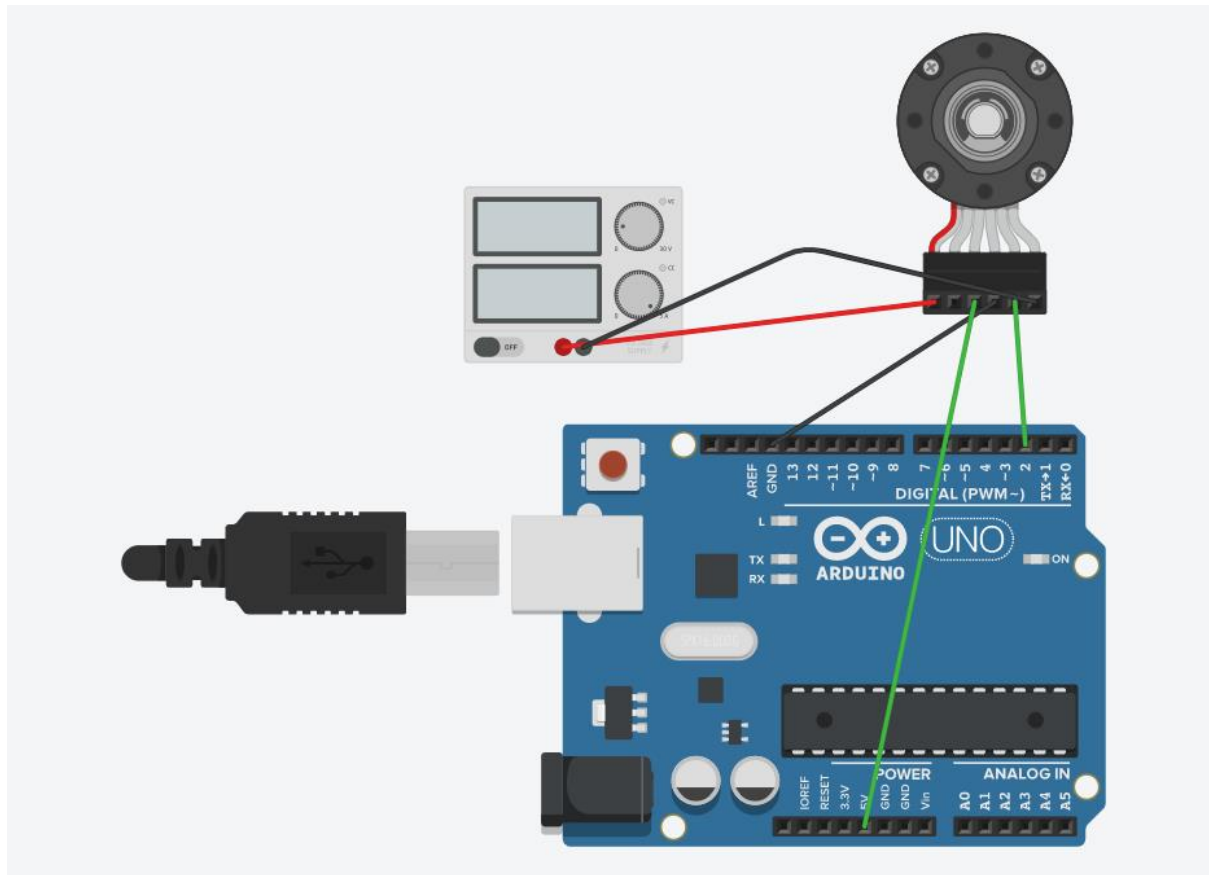
```
    Serial.println("Recieve");
```

```
    Serial.println(speed);
```

```
    work(speed);
```

```
}
```

Q2



```
int count = 0;

void setup()
{
  pinMode(2, INPUT_PULLUP);
  Serial.begin(9600);
  attachInterrupt(digitalPinToInterrupt(2),W,RISING);
}

void loop()
{
  Serial.println(count);
  delay(1000);
}
```

```
void W(){  
    count++;  
}
```