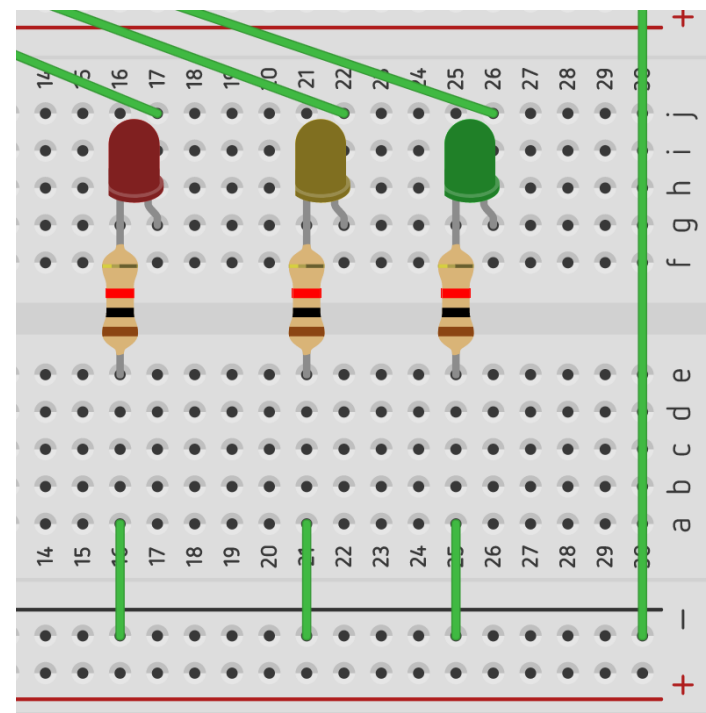
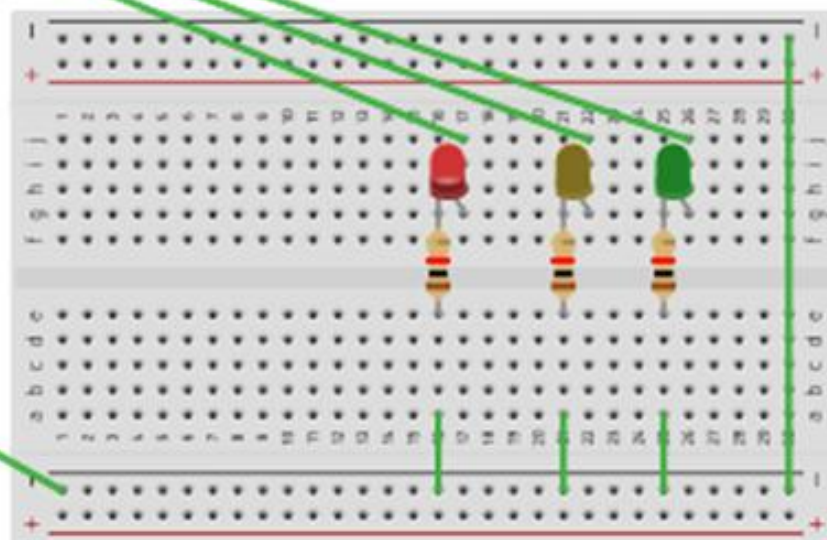
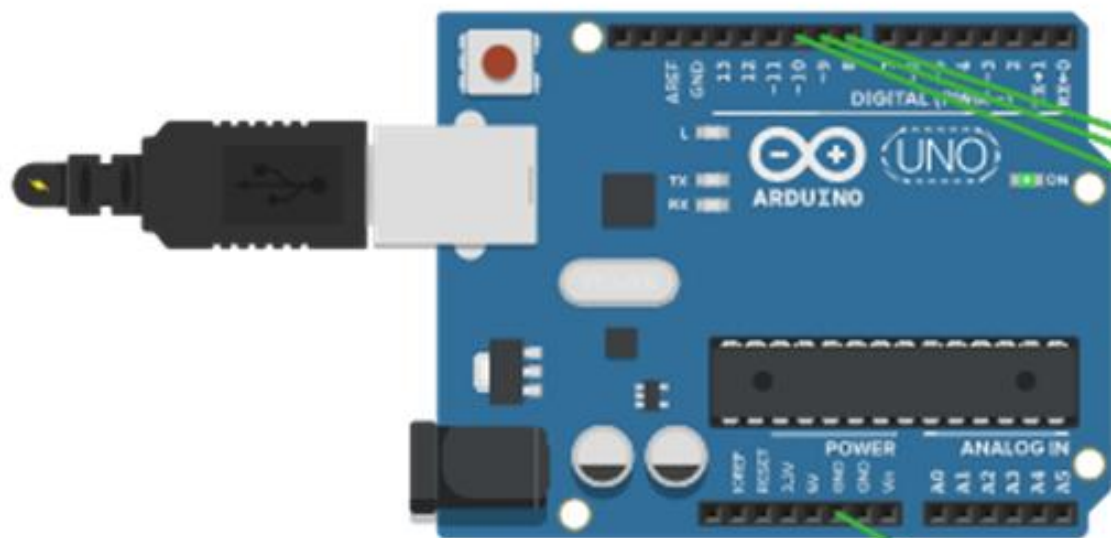


CIRCUITI ELETTRICI CON ARDUINO



```
int ledRosso = 10;
int ledGiallo = 9;
int ledVerde = 8;
```

```
// the setup routine runs once when you press reset:
```

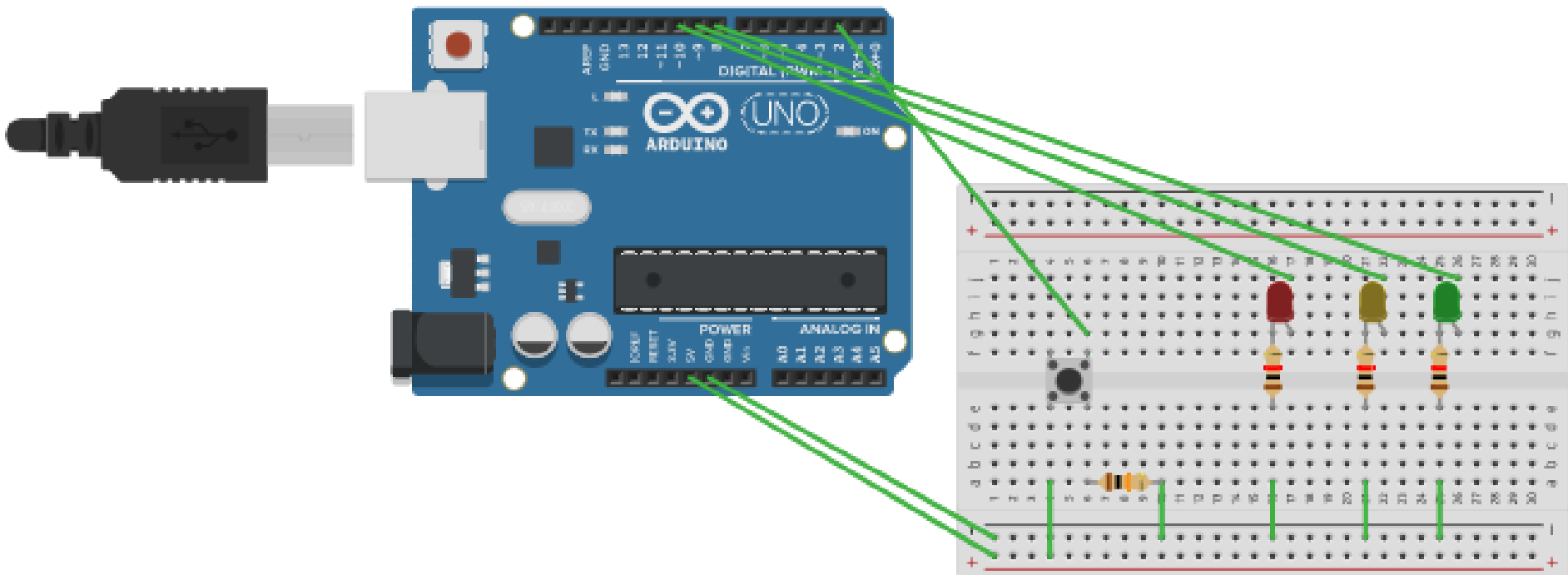
```
void setup() {
  // initialize the digital pin as an output.
  pinMode(ledRosso, OUTPUT);
  pinMode(ledGiallo, OUTPUT);
  pinMode(ledVerde, OUTPUT);
}
```

```
// the loop routine runs over and over again forever:
```

```
void loop() {
  digitalWrite(ledRosso, HIGH);
  delay(1000);      // wait for a second
  digitalWrite(ledGiallo, HIGH);
  delay(1000);      // wait for a second
  digitalWrite(ledVerde, HIGH);
  delay(1000);      // wait for a second

  digitalWrite(ledVerde, LOW);
  delay(1000);      // wait for a second
  digitalWrite(ledGiallo, LOW);
  delay(1000);      // wait for a second
  digitalWrite(ledRosso, LOW);
  delay(1000);      // wait for a second

}
```



```
int ledRosso = 10;
int ledGiallo = 9;
int ledVerde = 8;
const int buttonPin = 2; // the number of the pushbutton pin
// variables will change:
int buttonState = 0; // variable for reading the pushbutton status
```

```
// the setup routine runs once when you press reset:
```

```
void setup() {
  // initialize the digital pin as an output.
  pinMode(ledRosso, OUTPUT);
  pinMode(ledGiallo, OUTPUT);
  pinMode(ledVerde, OUTPUT);
  pinMode(buttonPin, INPUT);
}
```

```
// the loop routine runs over and over again forever:
```

```
void loop() {
  // read the state of the pushbutton value:
  buttonState = digitalRead(buttonPin);
```

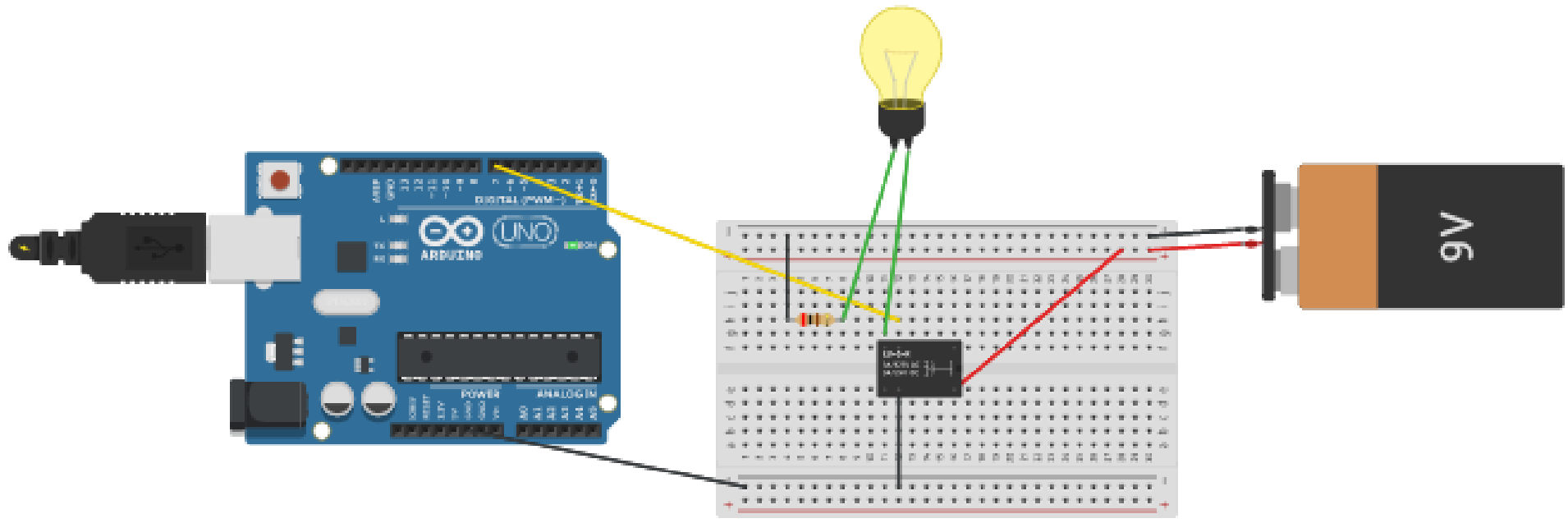
```
// check if the pushbutton is pressed. If it is, the buttonState is HIGH:
```

```
if (buttonState == HIGH) {
  digitalWrite(ledRosso, HIGH);
  delay(1000); // wait for a second
  digitalWrite(ledGiallo, HIGH);
  delay(1000); // wait for a second
  digitalWrite(ledVerde, HIGH);
  delay(1000); // wait for a second
```

```
digitalWrite(ledVerde, LOW); // turn the LED on (HIGH is the voltage level)
delay(1000);                // wait for a second
digitalWrite(ledGiallo, LOW); // turn the LED off by making the voltage LOW
delay(1000);                // wait for a second
digitalWrite(ledRosso, LOW); // turn the LED off by making the voltage LOW
delay(1000);                // wait for a second
} else {

}

}
```



```
int relePin = 7;
```

```
// the setup routine runs once when you press reset:
```

```
void setup() {
```

```
  // initialize the digital pin as an output.
```

```
  pinMode(relePin, OUTPUT);
```

```
}
```

```
// the loop routine runs over and over again forever:
```

```
void loop() {
```

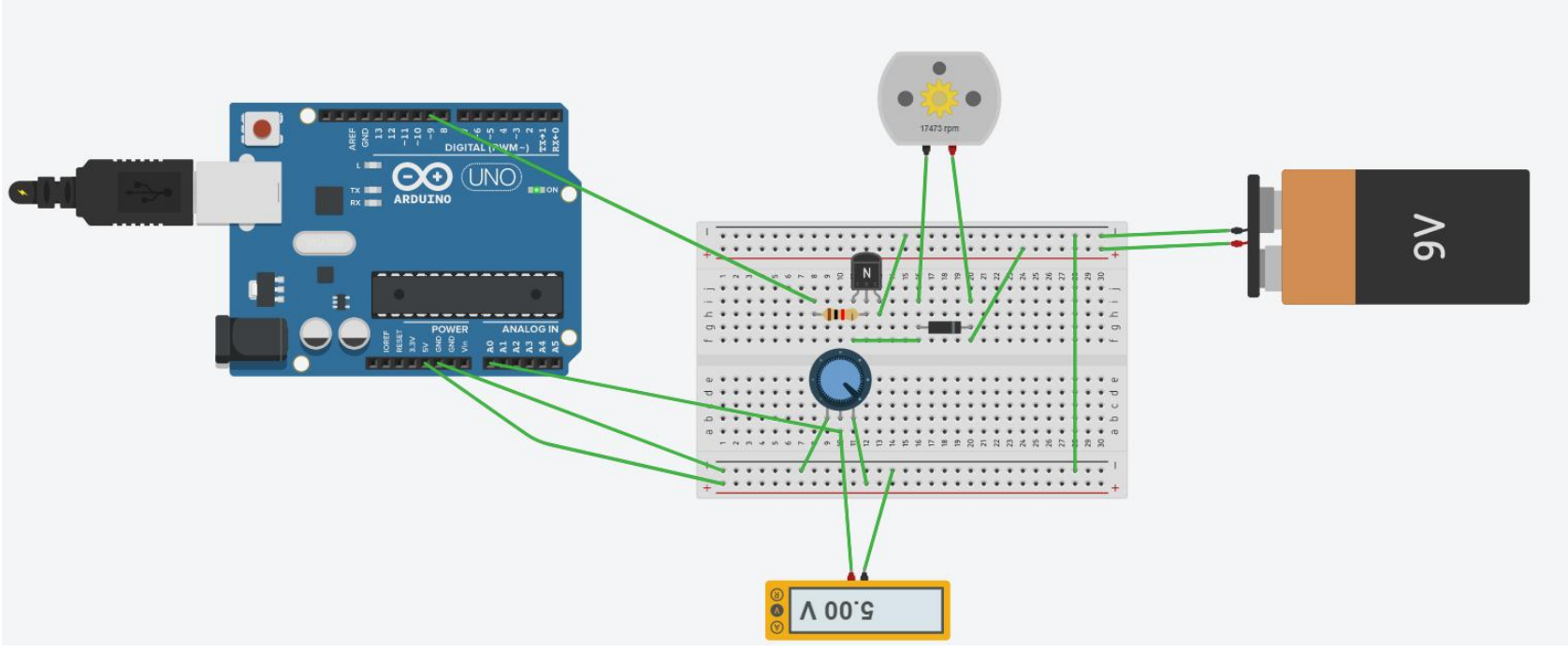
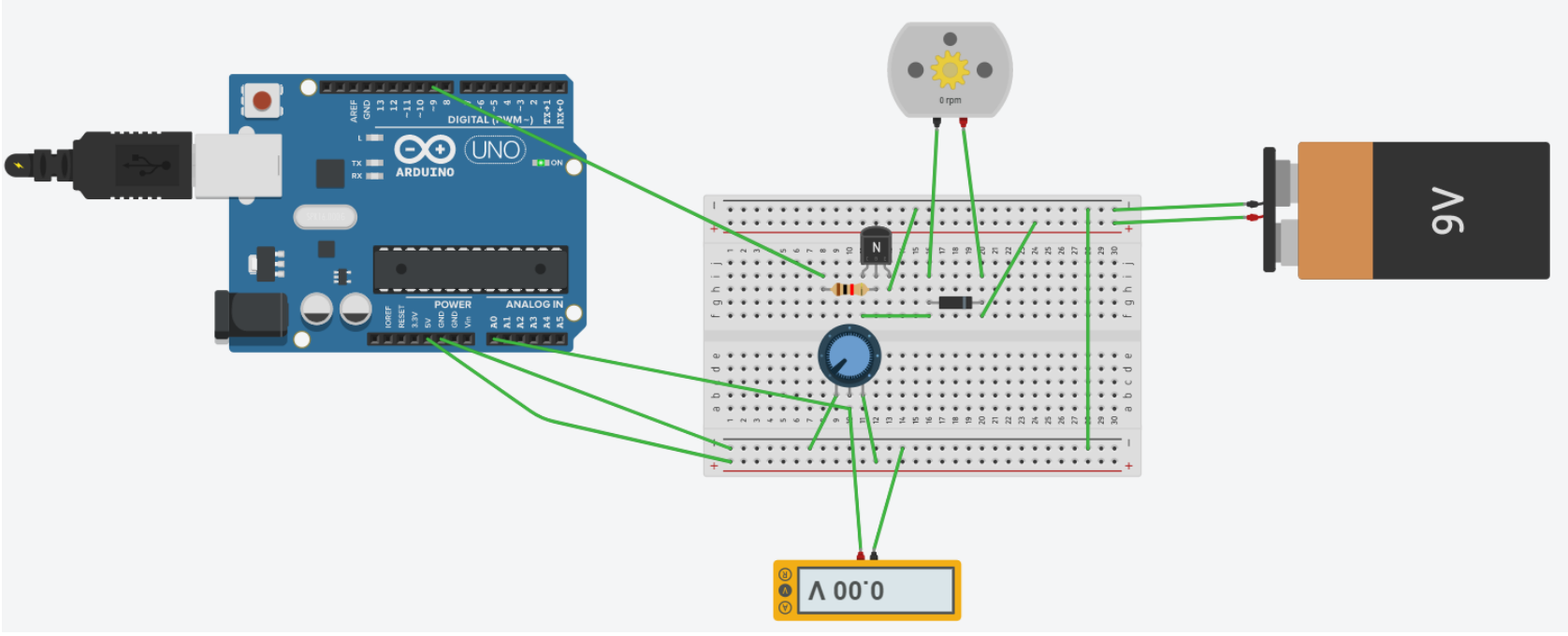
```
  digitalWrite(relePin, HIGH);
```

```
  delay(2000);          // wait for 2 second
```

```
  digitalWrite(relePin, LOW);
```

```
  delay(2000);          // wait for 2 second
```

```
}
```




```
const int potenziometro = 0; // pin del potenziometro
const int motore = 9; // pin del motore
```

```
void setup() {
  // inizializza il motore come output
  pinMode(motore, OUTPUT);
}
```

```
void loop(){
  // Riporta il valore analogico da 0-1023 a 0-255
  byte valore = map(analogRead(potenziometro),0,1023,0,255);
```

```
  // Il motore gira con velocità proporzionale alla rotazione del potenziometro
  analogWrite(motore,valore);
```

```
}
```

