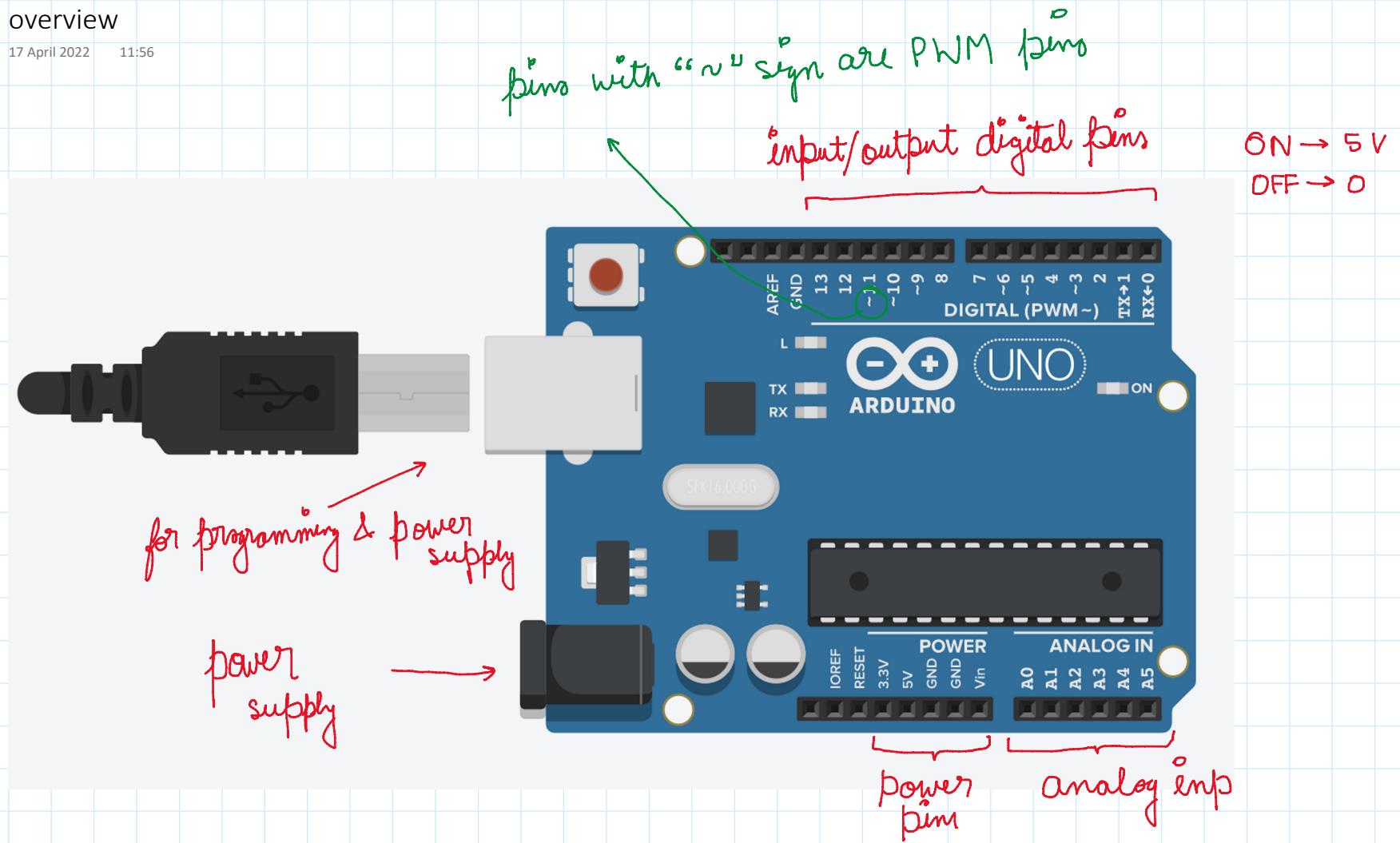


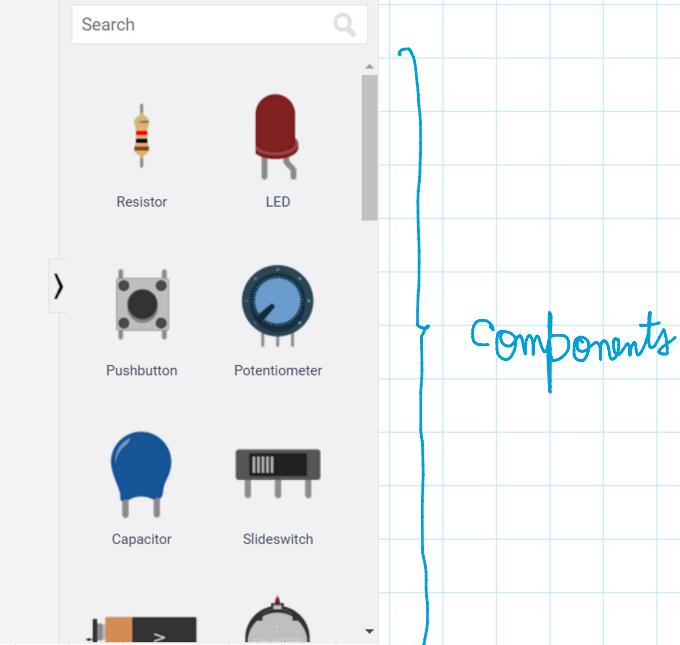
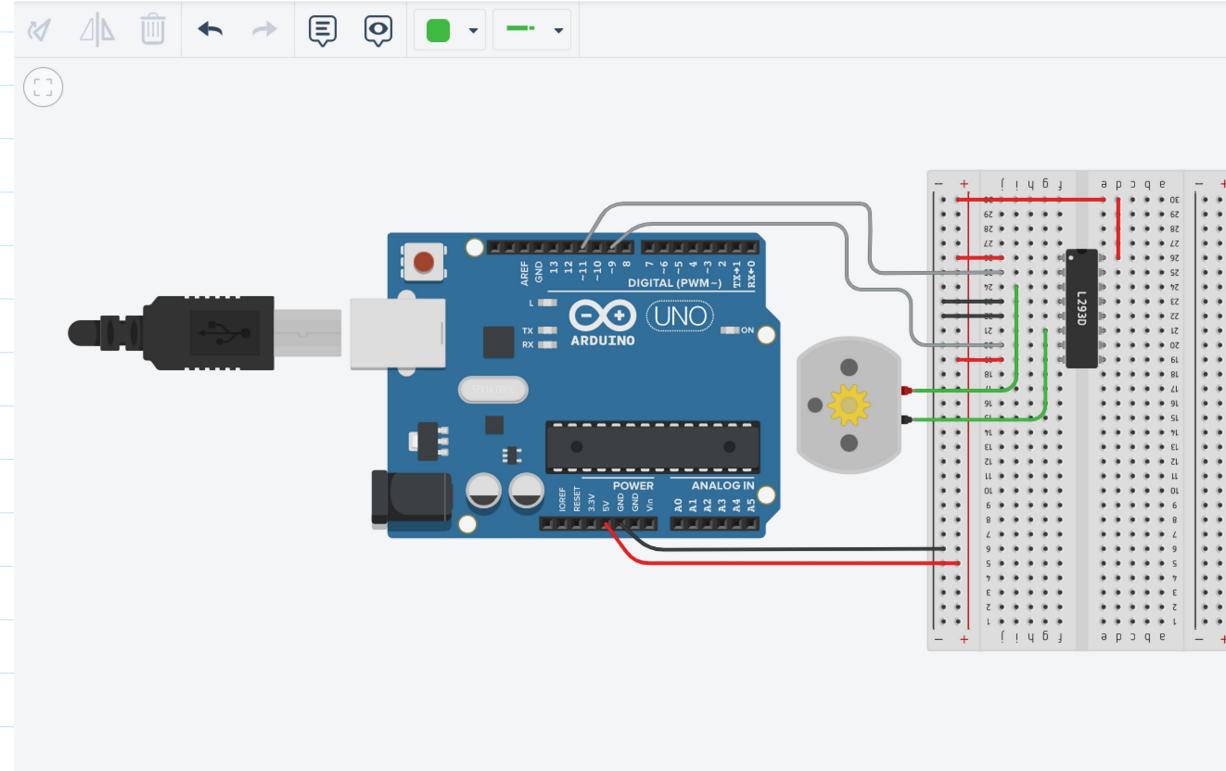
overview

17 April 2022 11:56



get familiar with arduino on linkercad if not having board & modules

TIN
KER
CAD
Direction DC-Motor by using H-bridge Motor Driver [L293D] in Arduino



run simulation

Components

TINKER CAD Direction DC-Motor by using H-bridge Motor Driver [L293D] in Arduino

Change to text from block → Code section

All changes saved

Code Start Simulation Send To

Text

```
1 void setup()
2 {
3   pinMode(13, OUTPUT);
4   pinMode(11, OUTPUT);
5   pinMode(9, OUTPUT);
6 }
7
8 void loop()
9 {
10  //clockwise
11  digitalWrite(11, HIGH);
12  digitalWrite(9, LOW);
13  delay(2000);
14  //anti-clockwise
15  digitalWrite(11, LOW);
16  digitalWrite(9, HIGH);
17  delay(2000);
18 }
```

Serial Monitor

```

void setup() {
    // put your setup code here, to run once:
}

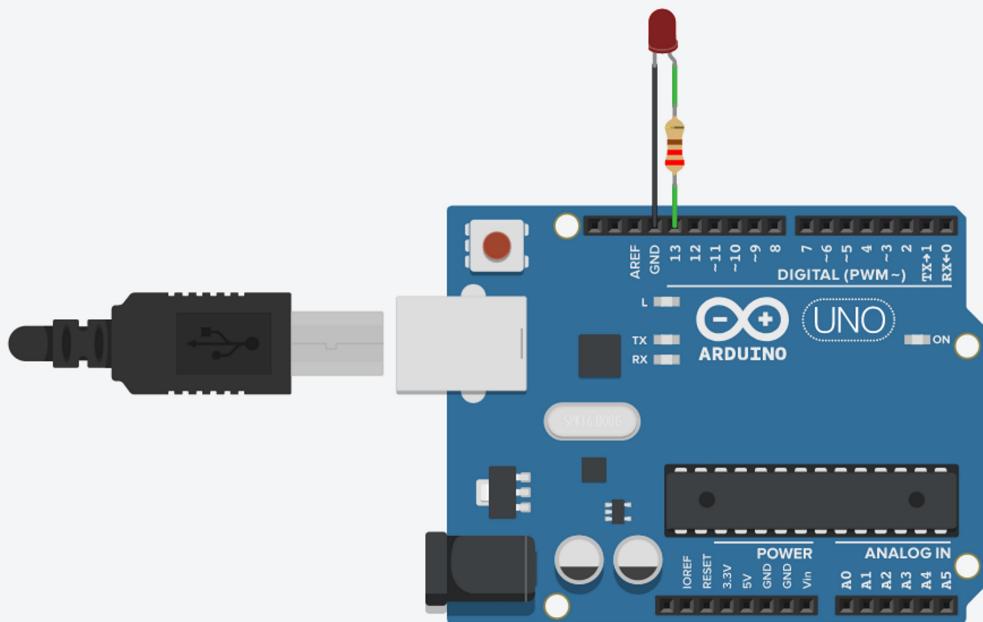
void loop() {
    // put your main code here, to run repeatedly:
}

```

→ use to initialise your code

→ active control / main code

blink circuit



Code for blinking

```

void setup()
{
    pinMode(13, OUTPUT); → pin 13 as output
}

void loop()
{
    // turn the LED on (HIGH is the voltage level)
    digitalWrite(13, HIGH); → HIGH at pin 13
    delay(1000); // Wait for 1000 millisecond(s)
    // turn the LED off by making the voltage LOW
    digitalWrite(13, LOW); → LOW at pin 13
    delay(1000); // Wait for 1000 millisecond(s)
}

```

delay of 1000 msec

`pinMode(pin-number, OUTPUT/INPUT)` → Set pin as input or output

`digitalWrite(pin-number, HIGH/LOW)` → set output pin as HIGH or LOW
↓
I/O

`delay(time_milliseconds)` → waits for defined time before next line

`analogRead(pin-number)` → read analog values in range (0 - 1023)

`analogWrite(pin-number, value)` → set voltage corresponding to value (0 - 255)

`map(value, fromMin, fromMax, toMin, toMax)` → maps values

`digitalRead(pin-number)` → read HIGH/LOW at pin