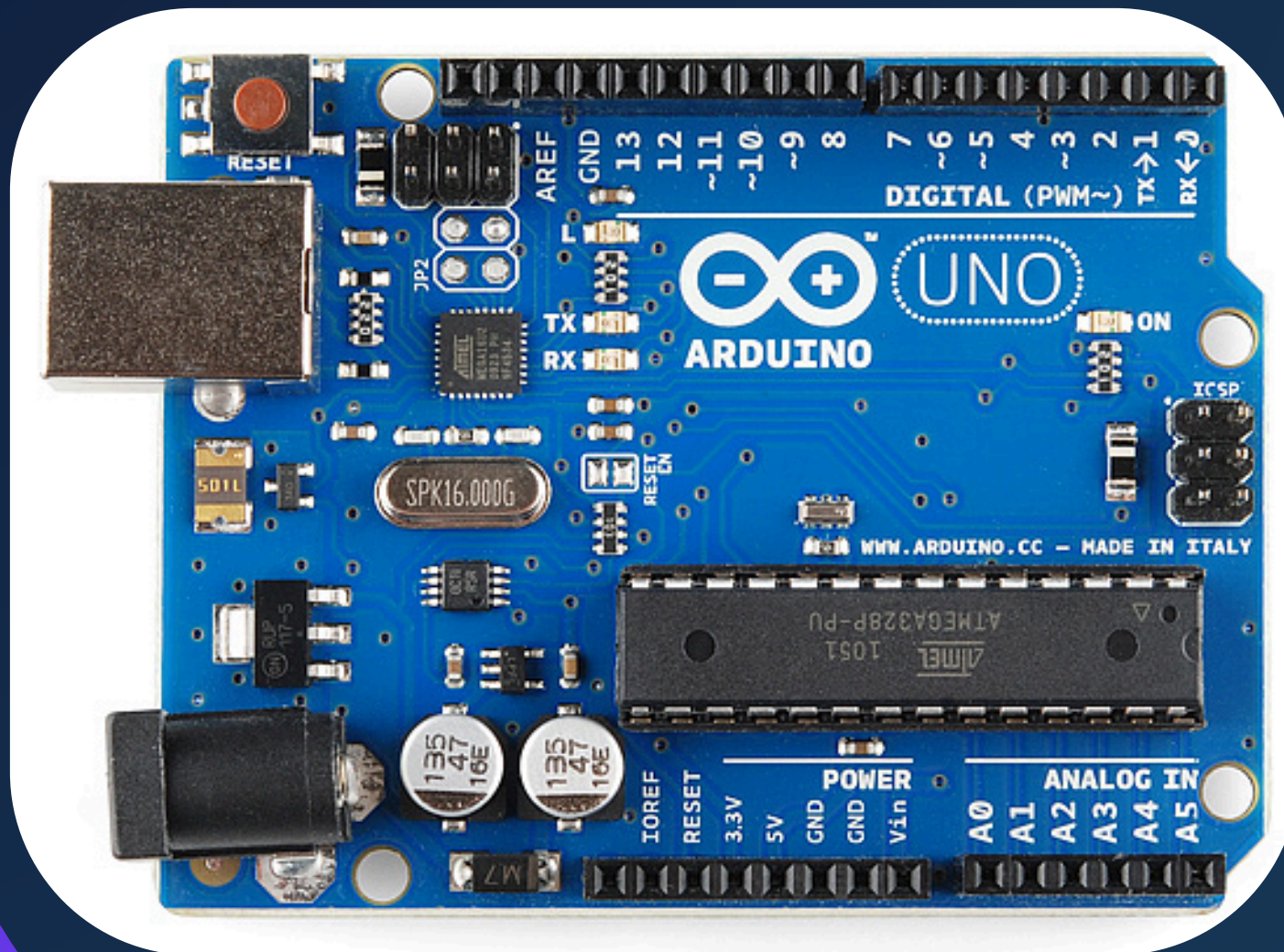


Arduino Experiment 1: Blinking LED



Rose Barakat

WHAT IS TINKER CAD?



A simulation tool to
build and test
circuits online.

Why Use It?

No need for physical
components, easy
debugging

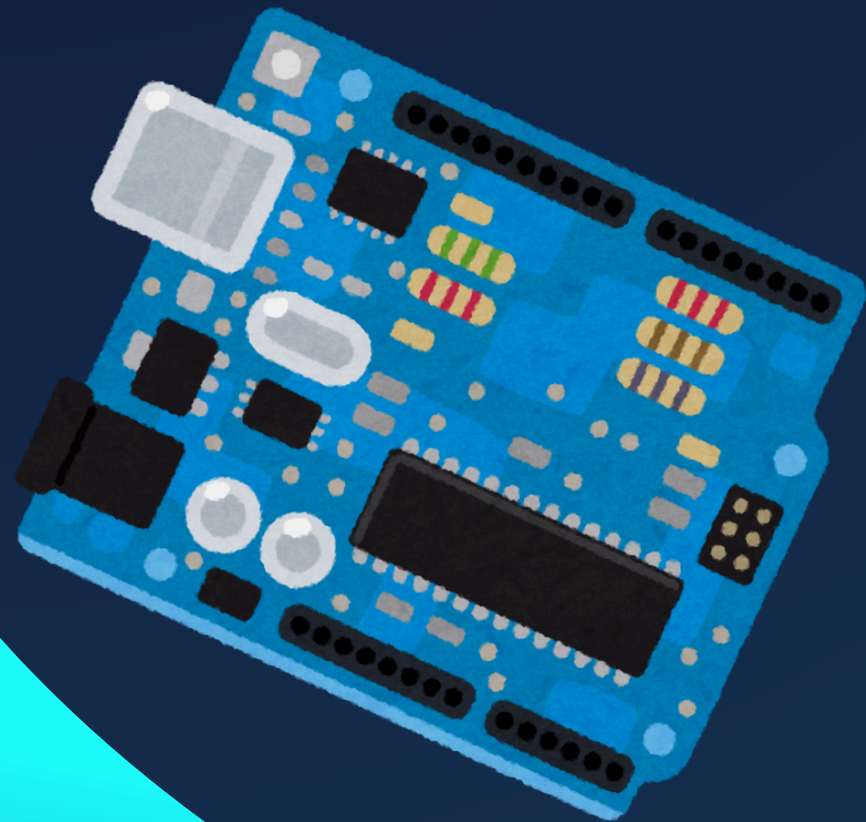




SETTING UP THE CIRCUIT

Components Needed:

1- Arduino



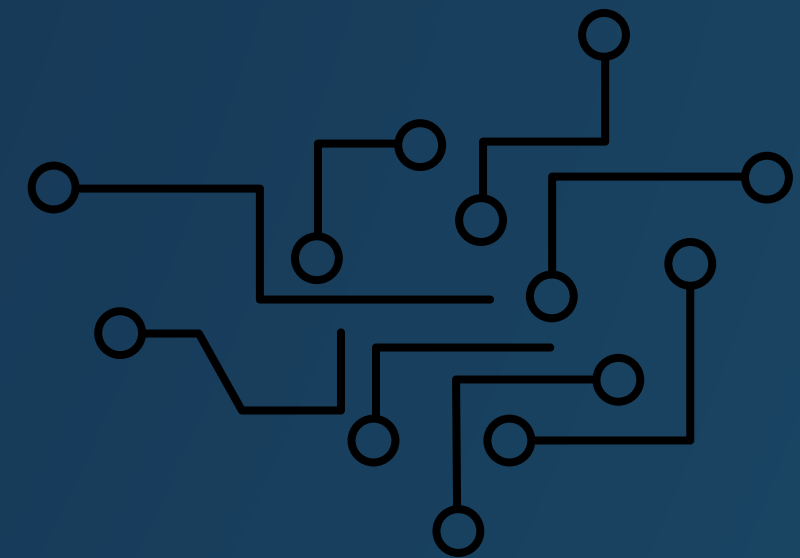
2- LED



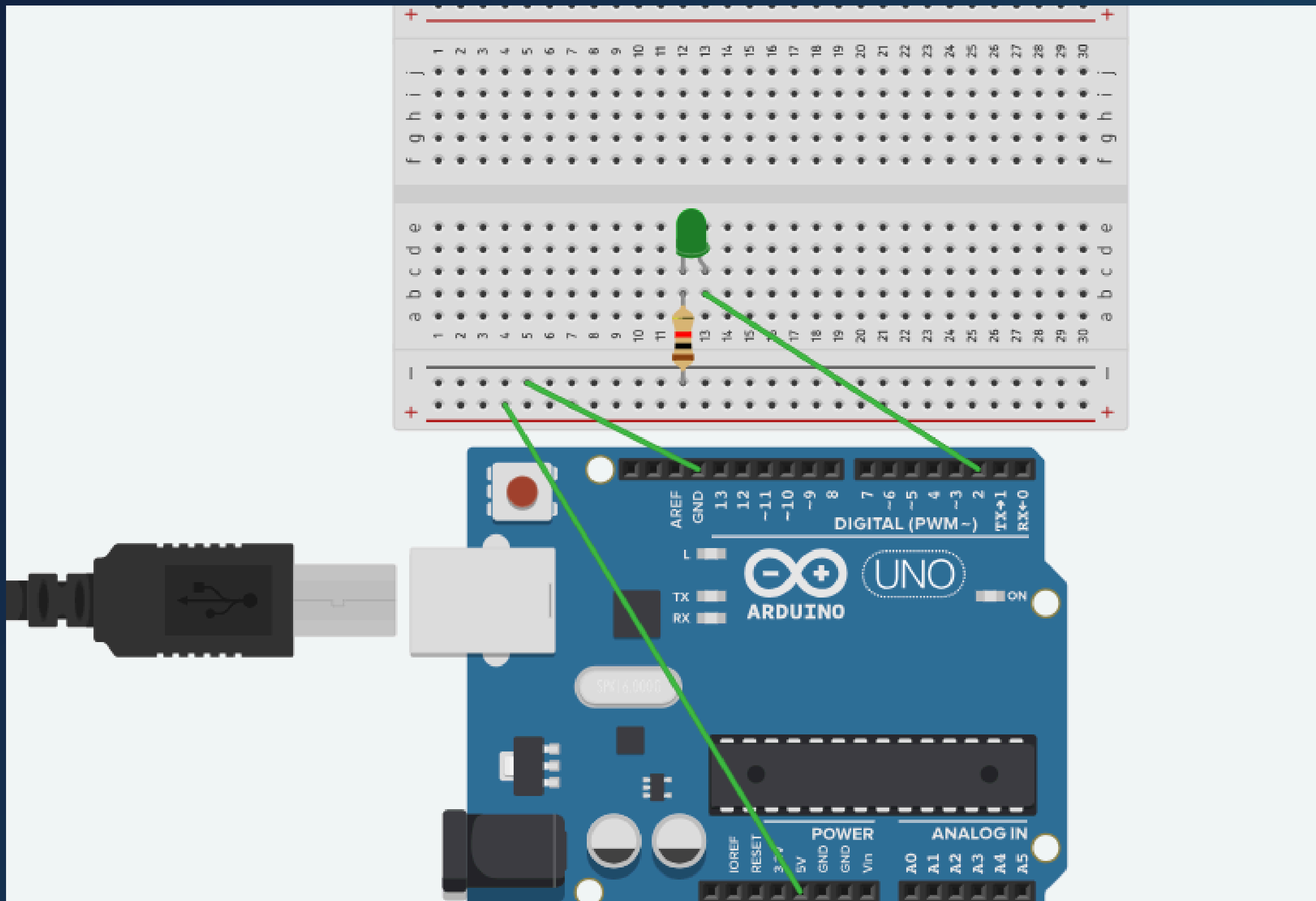
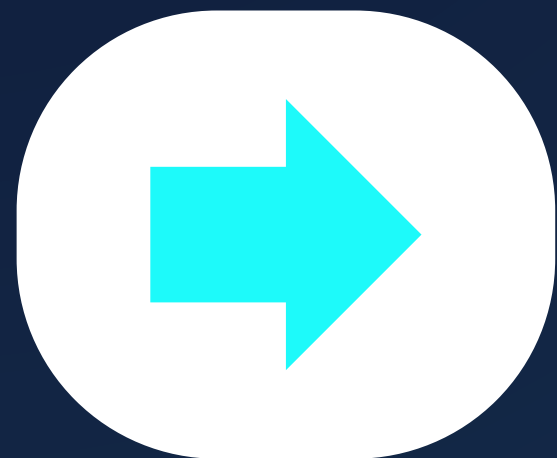
3- Resistor



4- Wires



THE CIRCUIT



CODE PART



Explanation

```
void setup()
```

```
{  
    pinMode(2, OUTPUT);  
}
```

```
void loop()
```

```
{  
    digitalWrite(2, HIGH);  
    delay(1000); // Wait for 1000 millisecond(s)  
    digitalWrite(2, LOW);  
    delay(1000); // Wait for 1000 millisecond(s)  
}
```

void setup() {} → Runs once, setting pin modes
void loop() {} → Repeats, controlling the LED
digitalWrite(Pin_Number, HIGH); → Turns LED on
delay(1000); → Waits for 1 second
digitalWrite(Pin_Number, LOW); → Turns LED off
delay(1000); → Waits again

CODING CHALLENGE

Modify the delay time to make the
LED blink faster/slower.