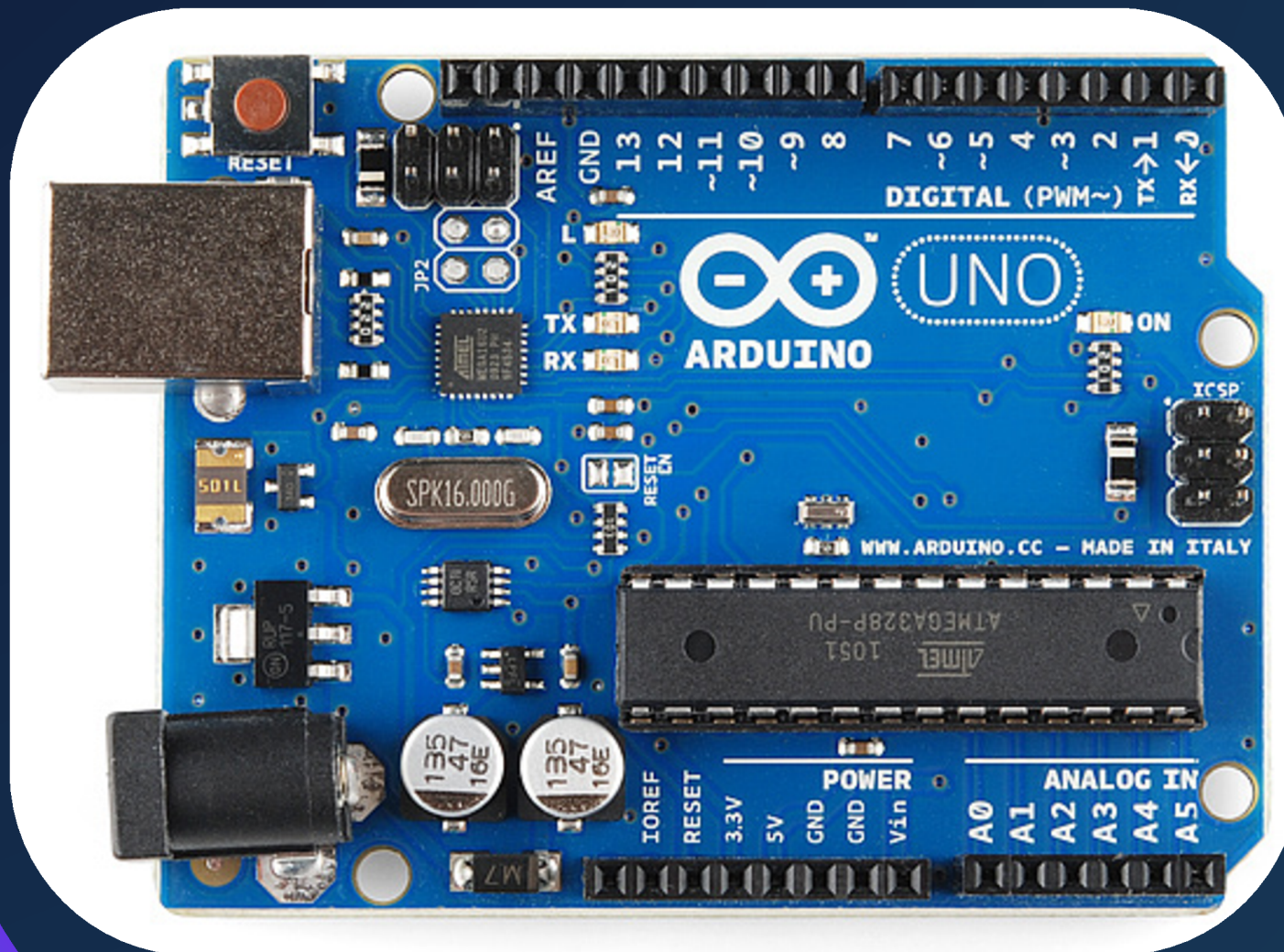


Arduino Experiment 1: Blinking LED



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

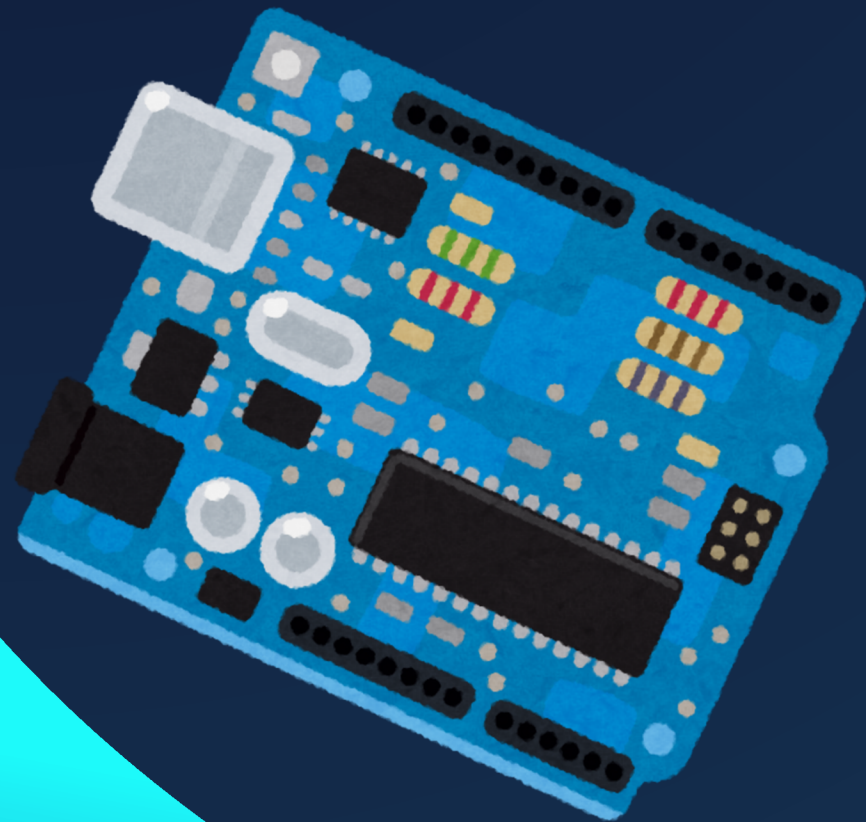




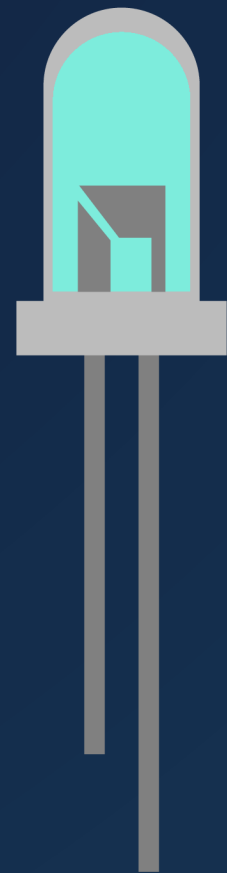
SETTING UP THE CIRCUIT

Components Needed:

1- Arduino



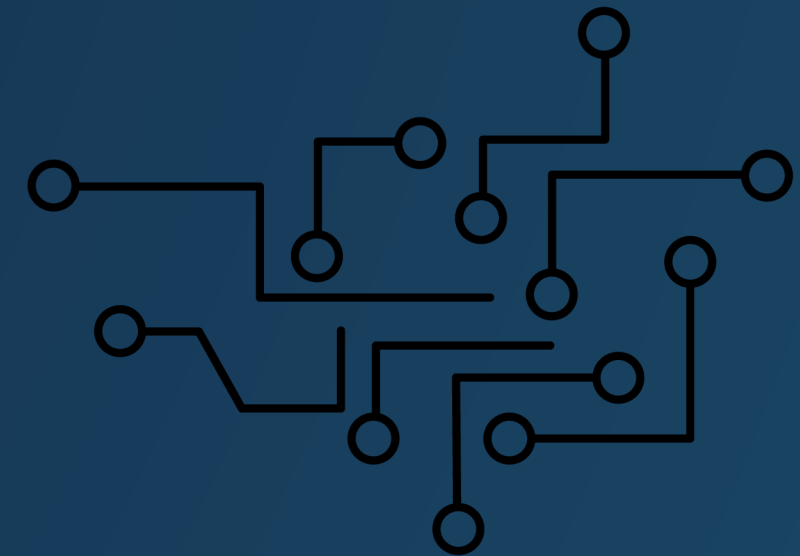
2- LED



3- Resistor



4- Wires



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.