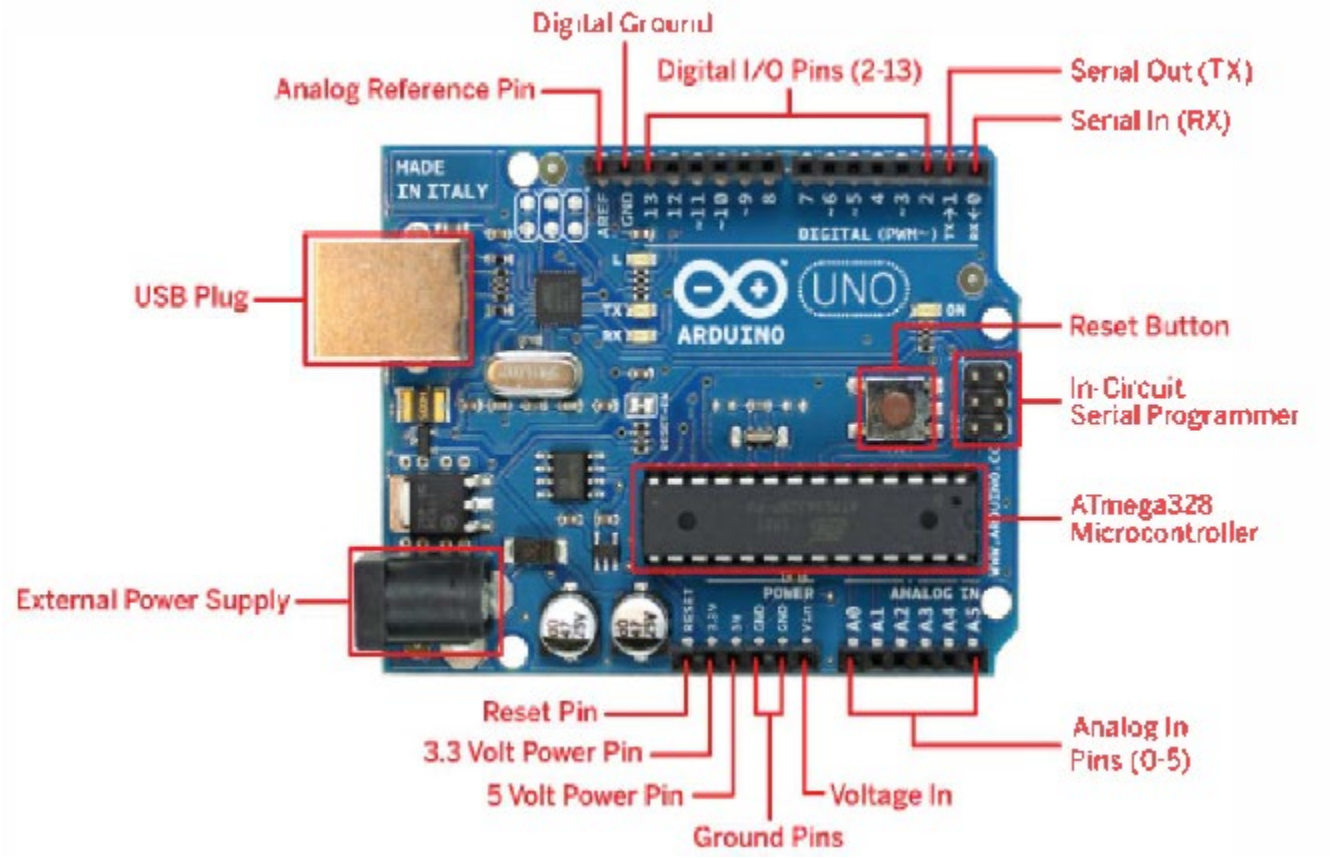
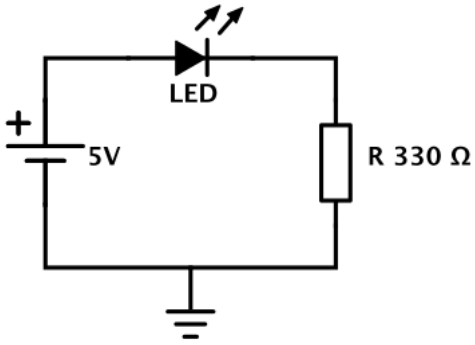
Arduino – Blinking LED Light



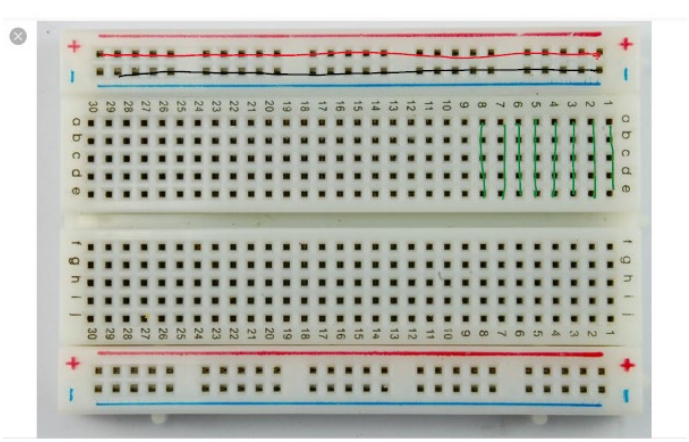
Example 1: Simple Circuit (just to turn on an LED light)

Components: Arduino, Breadboard, LED light, resistor, and wir

Simple circuit:

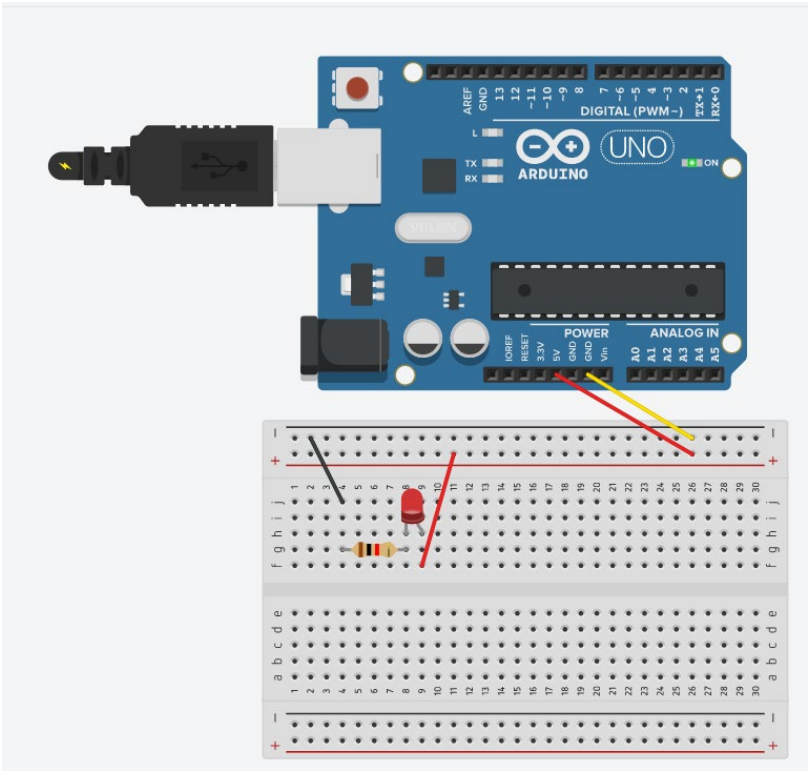


Breadboards make our job easy:



The Same Row means they are Connected

Remember that breadboard rows are connect underneath. Therefore, if two wires are inserted in the same row, they will be connected.

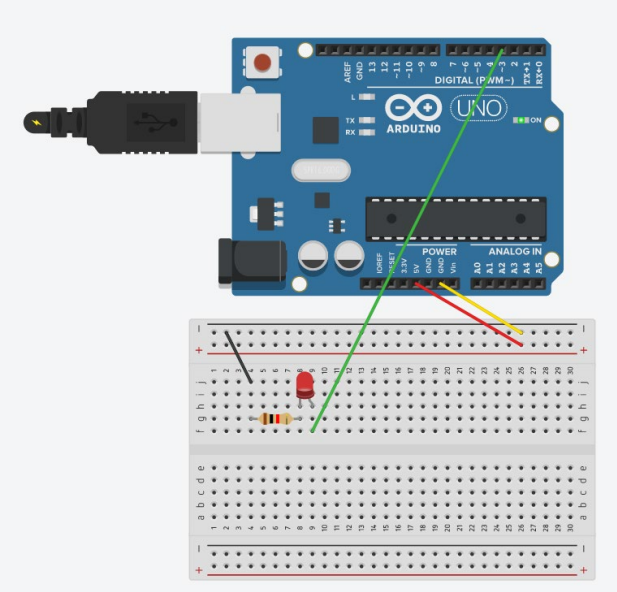


Example 2: Circuit for a blinking LED light

Open Arduino Software:

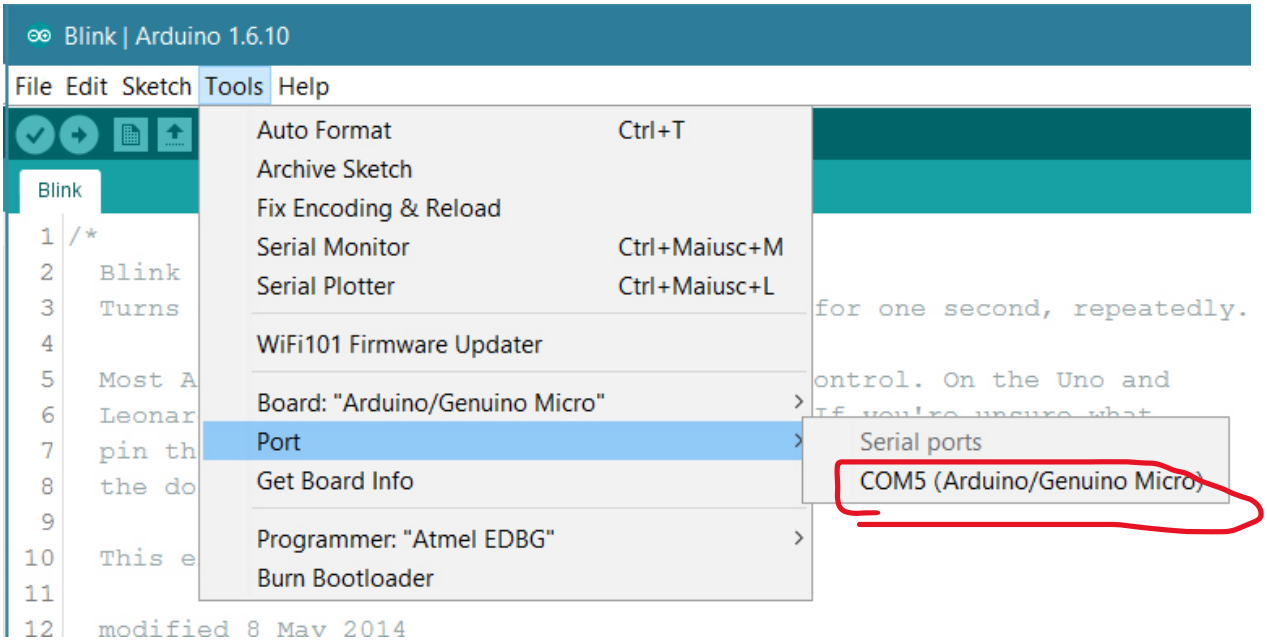
Type the following code:

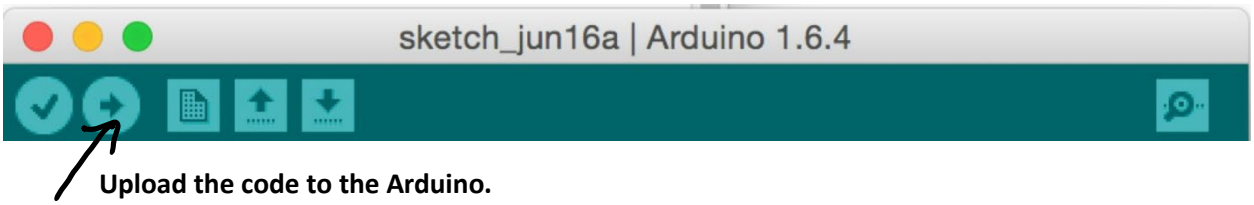
```
void setup()
{
  pinMode(3, OUTPUT);
}
void loop()
{
  // turn the LED on
  digitalWrite(3, HIGH);
   delay(1000);
    // turn the LED off
  digitalWrite(3, LOW);
  delay(1000);
}
```



Compile the code. It will show if you have any errors.

Click on Tools, then Port, then select COM (Arduino…)





Upload the code to the Arduino.

Example 3: Circuit for two blinking LED lights

1- Click on “Code”, on the top, then select “Text”, and copy-paste the following code.

```
void setup()
{
  pinMode(3, OUTPUT);
  pinMode(5, OUTPUT);
}
void loop()
{
  digitalWrite(3, HIGH);
  digitalWrite(5, LOW);
   delay(1000); // Wait for 10000 millisecond(s)
    digitalWrite(3, LOW);
  digitalWrite(5, HIGH);

  delay(1000); // Wait for 10000 millisecond(s)
}
```