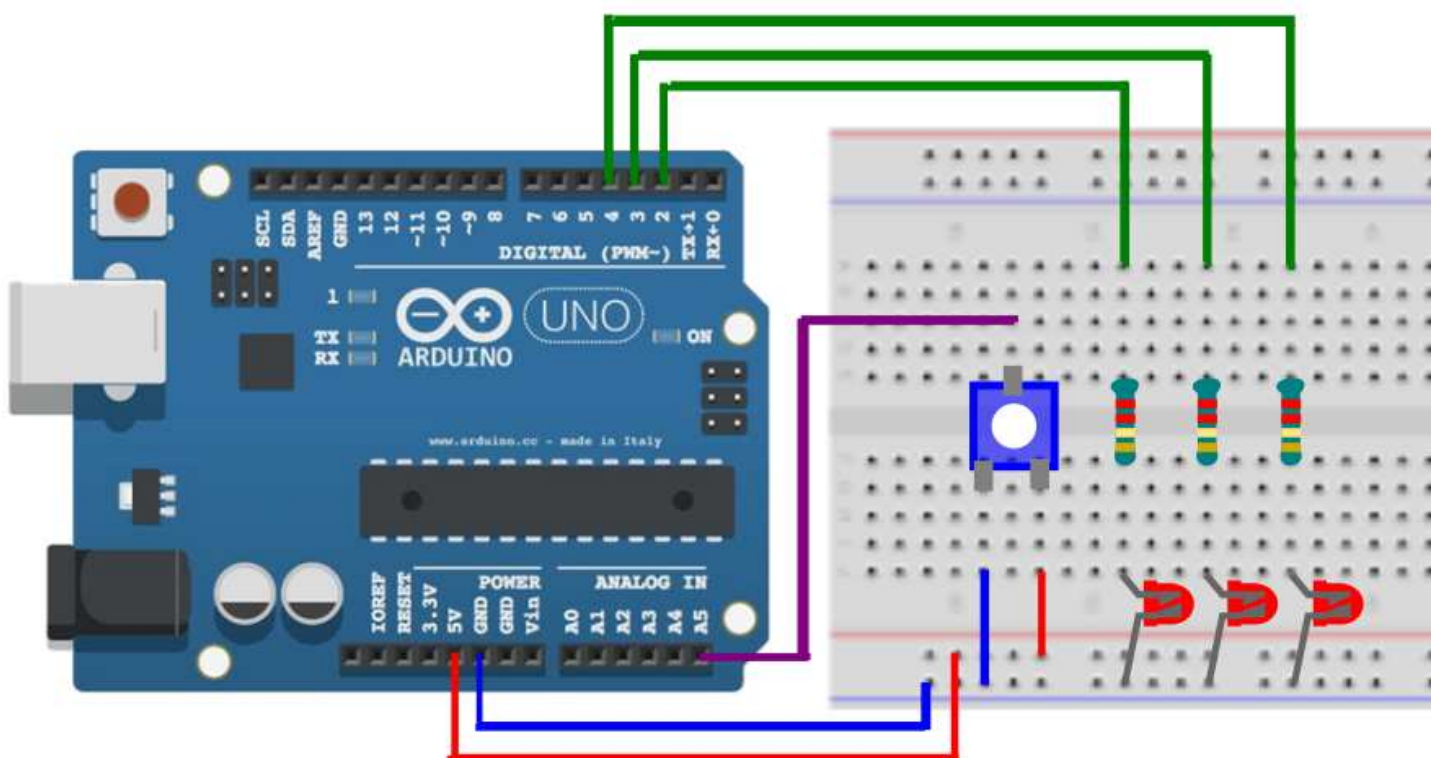


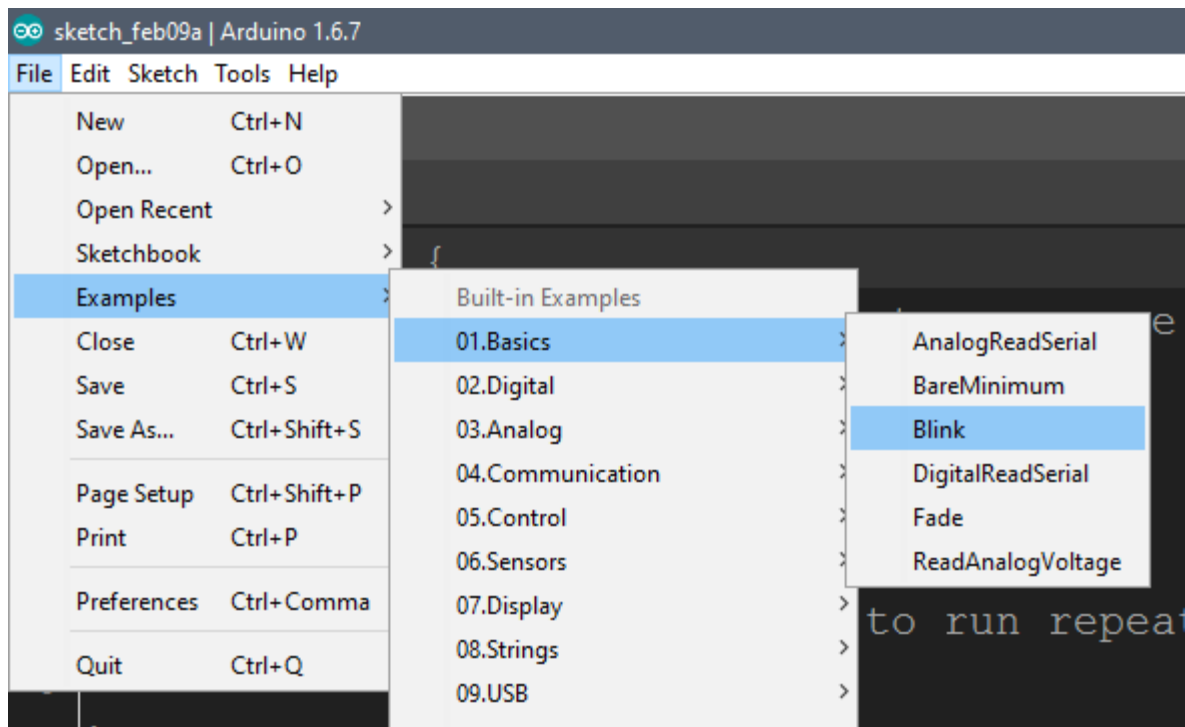
Practical Example - LED



Step 1: Connect Components



Step 2: Open Arduino IDE

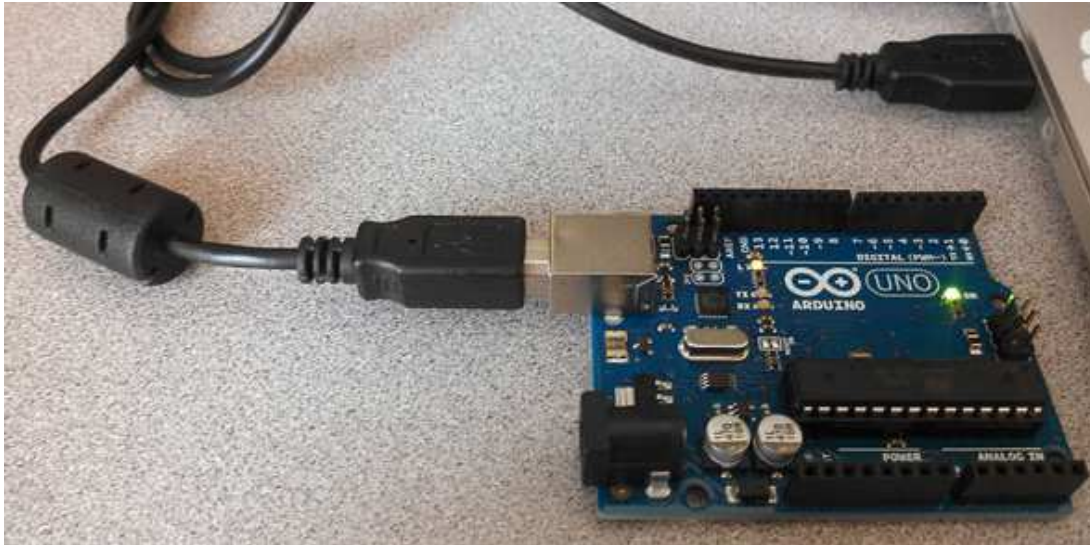


Step 3: Set Output Pin = 2

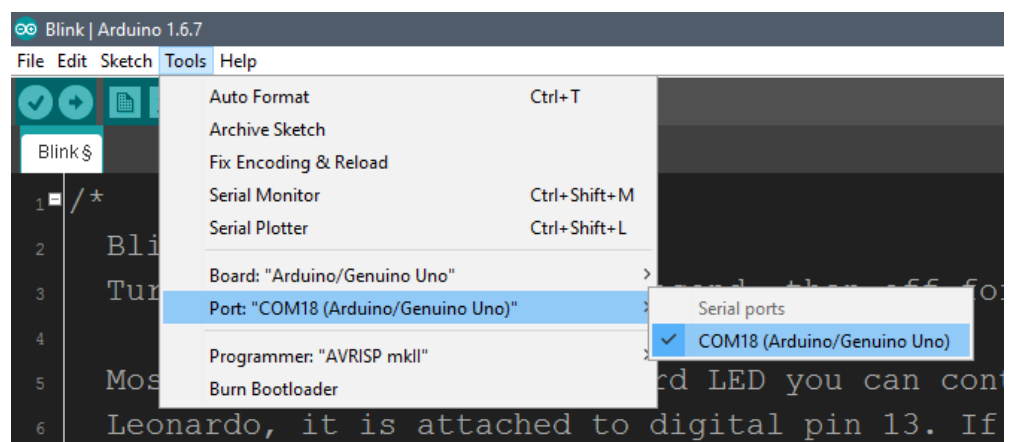
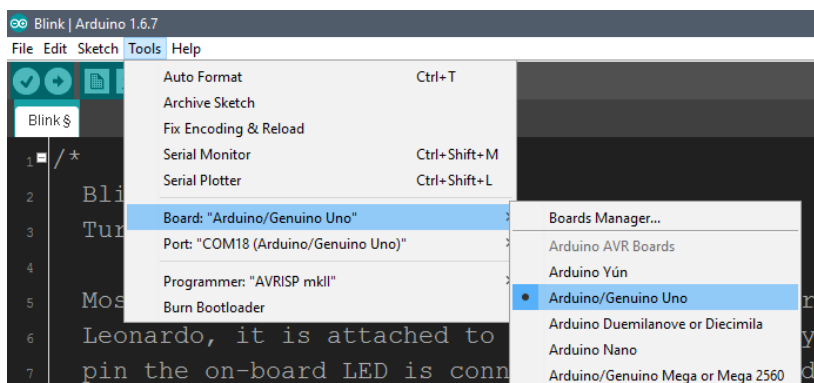
```
15
16
17 // the setup function runs once when you press reset or power the board
18 void setup() {
19     // initialize digital pin 13 as an output.
20     pinMode(2, OUTPUT);
21 }
```

```
23 // the loop function runs over and over again forever
24 void loop() {
25     digitalWrite(2, HIGH); // turn the LED on (HIGH is the voltage level)
26     delay(1000);           // wait for a second
27     digitalWrite(2, LOW);  // turn the LED off by making the voltage LOW
28     delay(1000);           // wait for a second
29 }
```

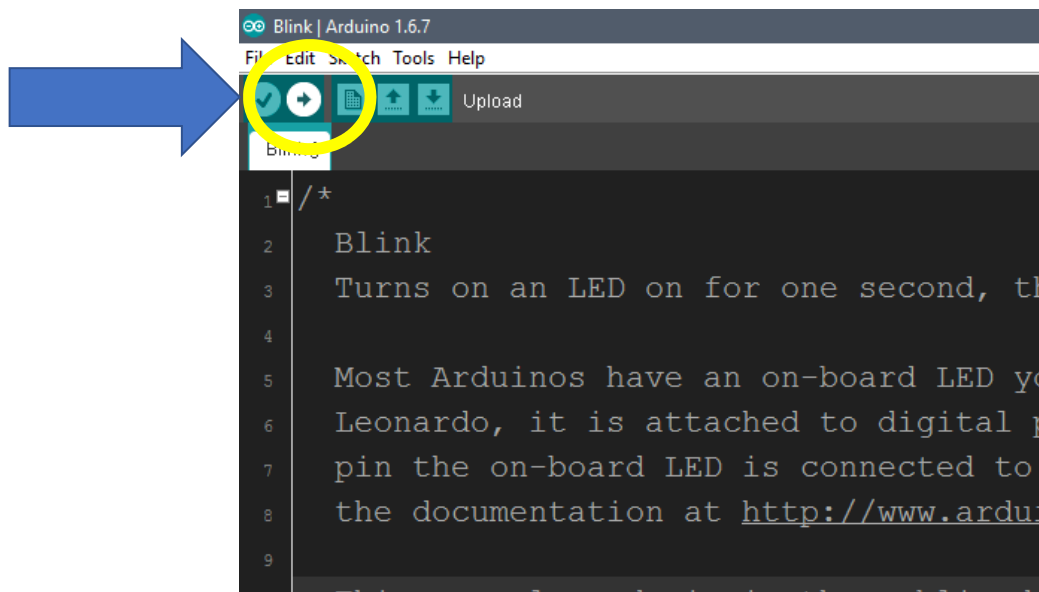
Step 4: Connect Arduino to PC



Step 5: Select Board & Port



Step 6: Upload



Practical Example – Analog Input

- Create a new Sketch
- Go to: github.com/wbock/Lecture4
- Copy-paste from “**AnalogDemo1.ino**”
- Upload to Arduino

Practical Example – Communication

- Create a new Arduino Sketch
- Go to: github.com/wbock/Lecture4
- Copy-paste from “**AnalogDemo2.ino**”
- Upload to Arduino
- Create a new Processing Sketch
- Copy-paste from “**CommunicationDemo.pde**”
- Run sketch