Exercise 5: Serial monitor (read/write)

Equipment

For this exercise you will need:

- 1 x Arduino Uno

Reading

Chapter 3 & 4

Setup

- Just connect the Uno to your computer. I bet it already was connected :)

Questions & Exercises

5a: Read the following code, try to explain what it does. See Serial.available() and Serial.read() for more info.

```
int incomingByte = 0;

void setup() {
  Serial.begin(9600);
}

void loop() {
  if (Serial.available() > 0) {
    incomingByte = Serial.read();
    Serial.print("I received: ");
    Serial.println(incomingByte, DEC);
  }
}
```

5b: Implement the code in your own IDE.

5c: Open the serial monitor (**ctrl+shift+m**), and set it to "no line ending". Send some data using the top line of the serial monitor.

5d: Why are you not receiving what you wrote? (e.g. G becomes 71)

5e: What happens if the serial monitor sends a line ending?

5f: Try changing the line Serial.print(incomingByte, DEC) to Serial.print((char)incomingByte). What happens? Why?

Hint

Click here if you need help