## Exercise 5 Serial monitor (read/write)

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```
int incomingByte = 0;
   3
        void setup() {
   4
        Serial.begin(9600);
   5
   6
        void loop() {
   7
        if (Serial.available() > 0) {
   8
   9
            incomingByte = Serial.read();
            Serial.print("I received: ");
  10
  11
            Serial.println(incomingByte, DEC);
  12
  13
       Serial Monitor ×
Output
Message (Enter to send message to 'Arduino Uno' on 'COM3')
I received: 71
I received: 10
```

## Questions

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

Because the returned value is in ascii code, and 71 is the ascii code for the character G

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

A line ending is given by 10 in ascii code

• 5c: Try changing the line Serial.print(incomingByte, DEC) to Serial.print((char)incomingByte). What hap- pens? Why?

The serial monitor now receives the character instead of the ascii code, so if you send G, you get G back, and then a blank space because 10 in ascii code is not a character but a line feed.

```
I received: G
I received:
```