

Exercise 6: Read from Serial Monitor

Equipment

For this exercise you will need:

- 1 x Arduino Uno
- 5 x LEDs
- 5 x Resistors $\sim 60 - 220\Omega$
- Wires

ctrl+k+c/u to comment or uncomment blocks of code!

Reading

Chapter 3, 4 & 6

Setup

- Connect all 5 LEDs to five different digital output pins.

Questions & Exercises

6a: What is a `char`? How many bits does one use?

6b: What is the resulting character stored in the variable `mychar`?

```
char mychar = '4';
int val = mychar - '0';
mychar = (char)(val + 'A' - 1)
```

6c: Make a program that lights an LED depending on what character has been send to the Uno

- The LEDs should represent the letters a, b, c, d and e. One LED for each letter.
- When sending one of the first five letters of the alphabet (case invariant) the corresponding LED must light up.
- All other characters should turn off all five LEDs.
- Lamps should only turn off if an unknown character is sent.

