Electronics II
Exercise 1

Deadline Wed 31.1.2018 12:00

1. Make an LED blink at 5 Hz frequency. (1.5p)
(Remember a current limiting resistor!)

2. Make an LED which changes it's state when a button is pressed. (1.5p)
(Use the Arduino's internal pullup resistor for the button. Debounce the button if necessary.)

3. Read the position of a potentiometer and display it on your computer. (1.5p)
(Use the Arduino IDE's built-in serial monitor.)

4. Make a 4-bit binary counter whose frequency is adjusted by a potentiometer and which can be reset to zero with a button. (1.5p)
(Have four leds light up in sequence 0000,0001,0010,0011 etc.)