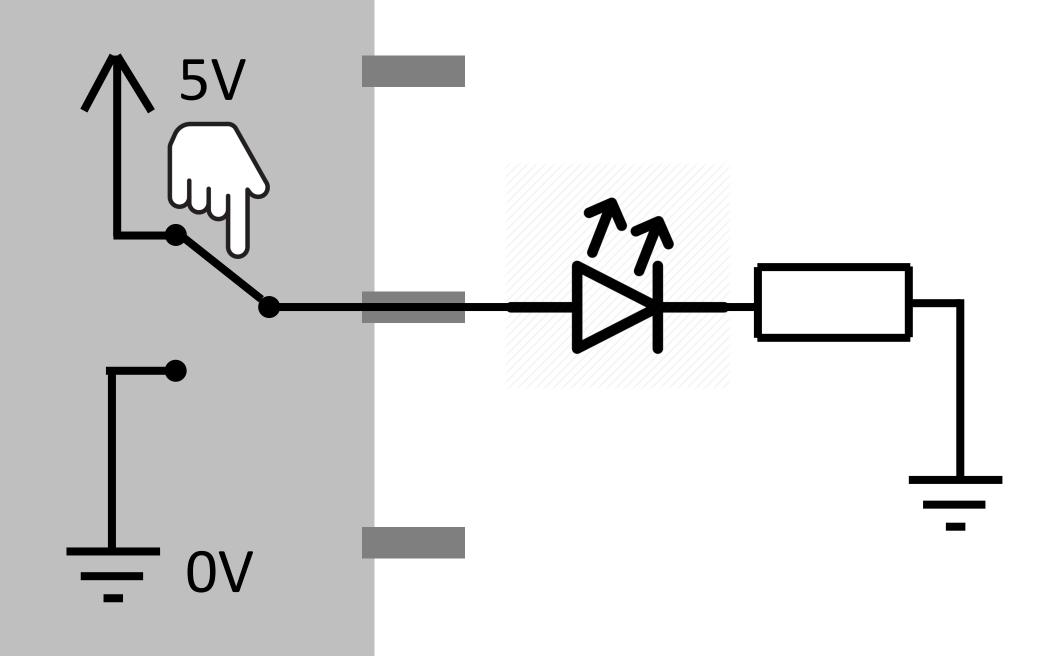
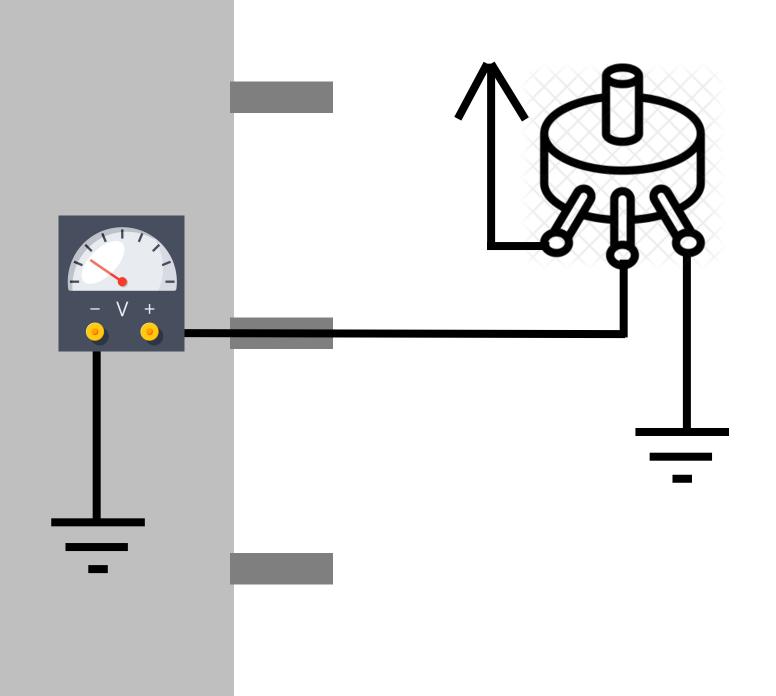
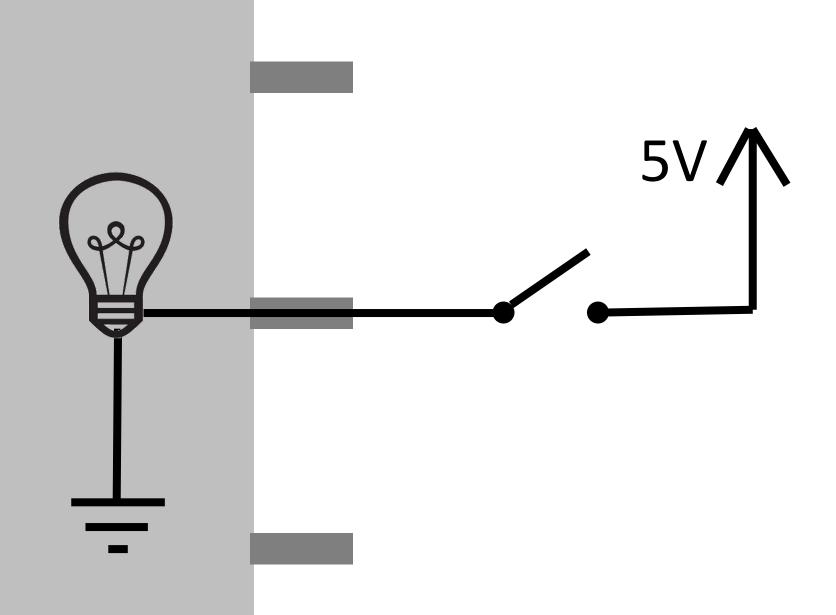
Electro workshop 3 https://x.valky.eu/elec3

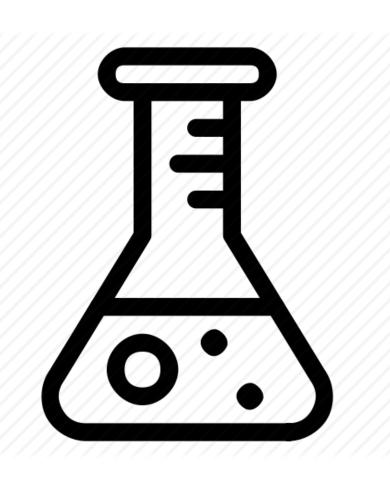
Ing. Gabriel Valky, PhD.

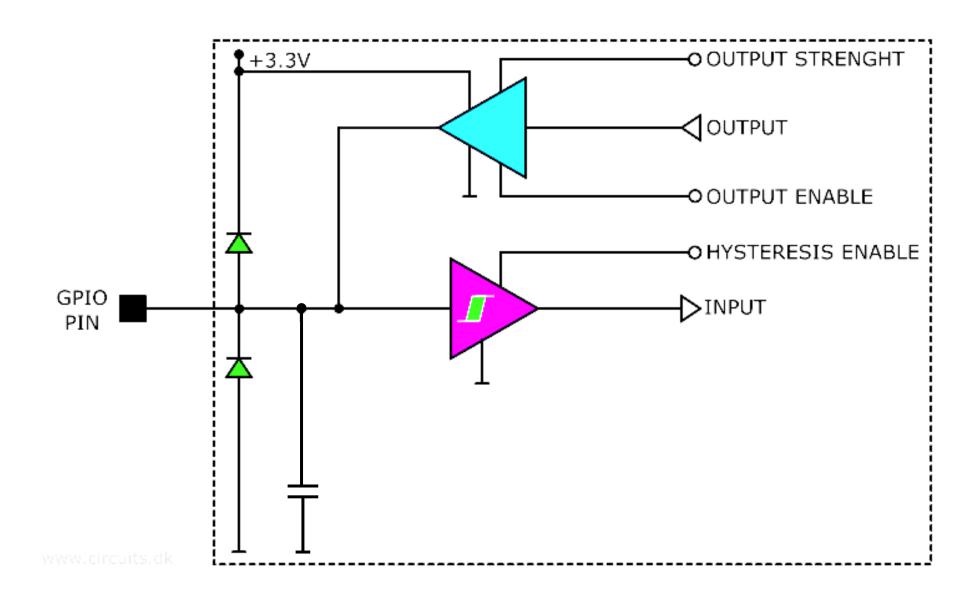






Experiment – vstupna impedancia

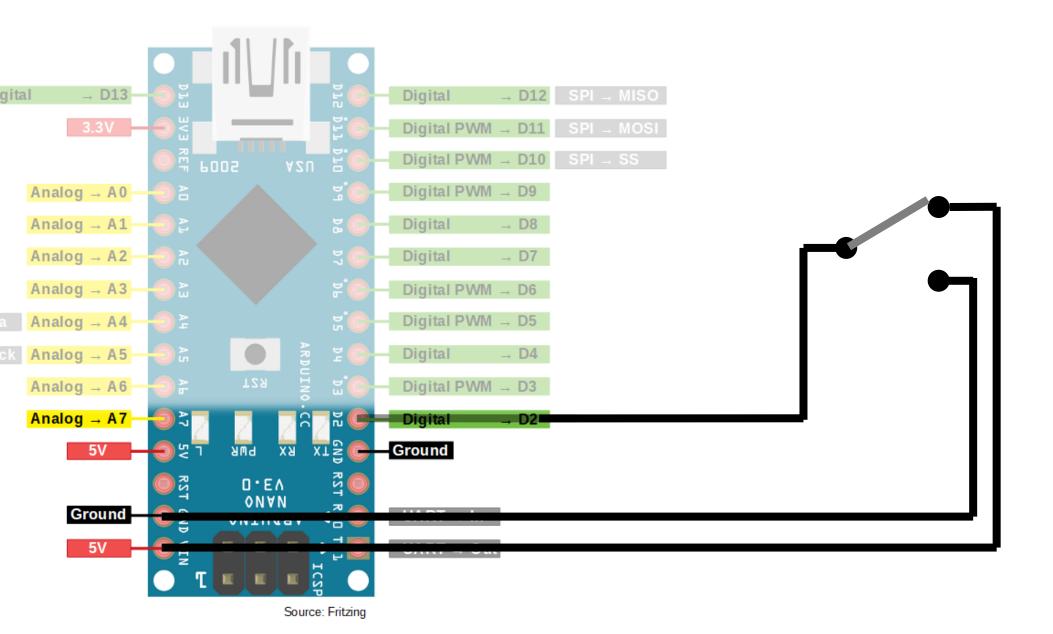




Letujeme





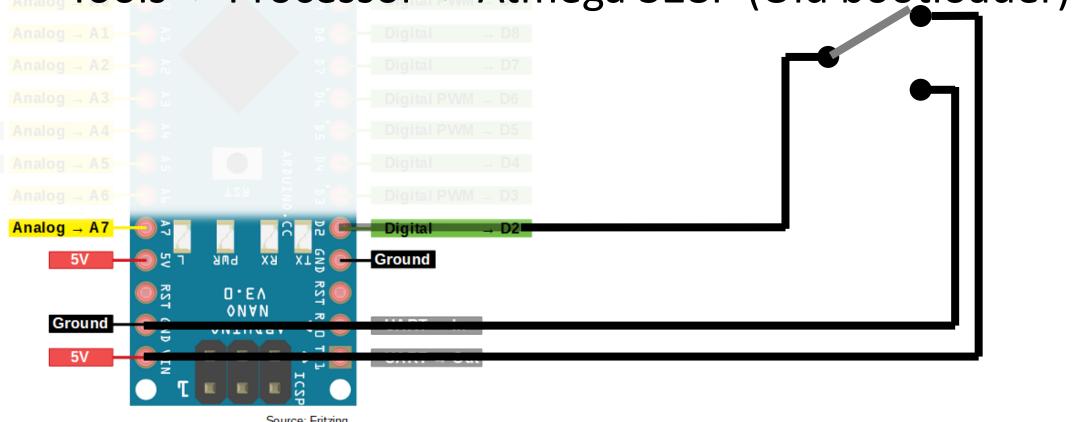


Uloha 0:

File -> Examples -> 01. Basics -> Blink

Tools -> Board -> Arduino Nano

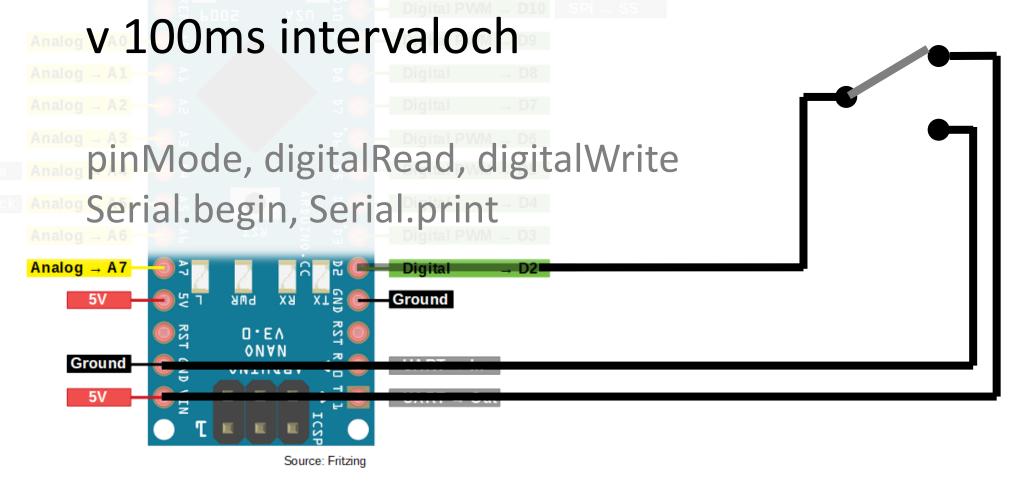
Tools -> Processor -> Atmega 328P (Old bootloader)

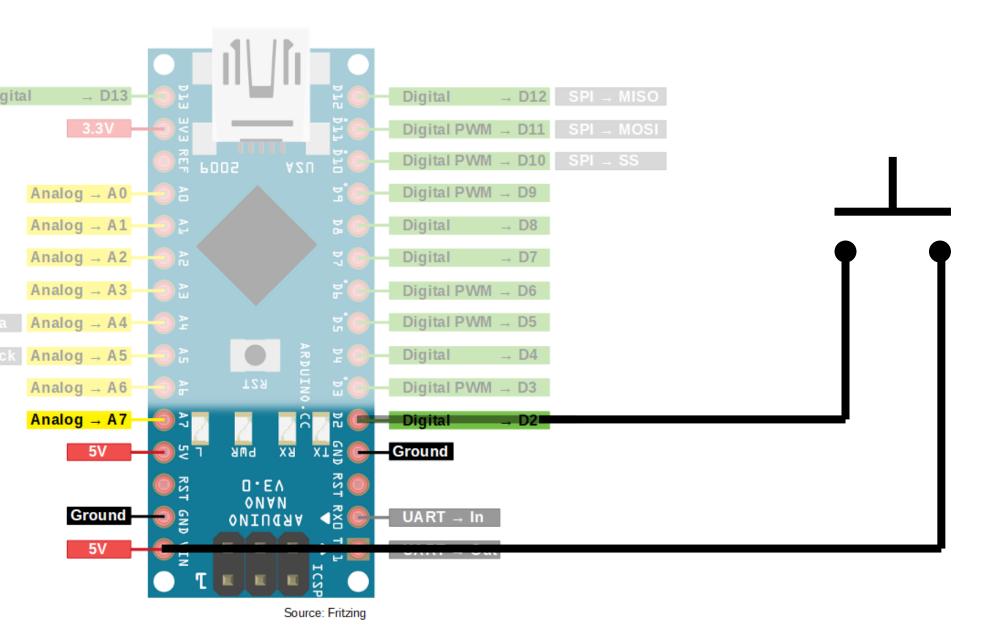


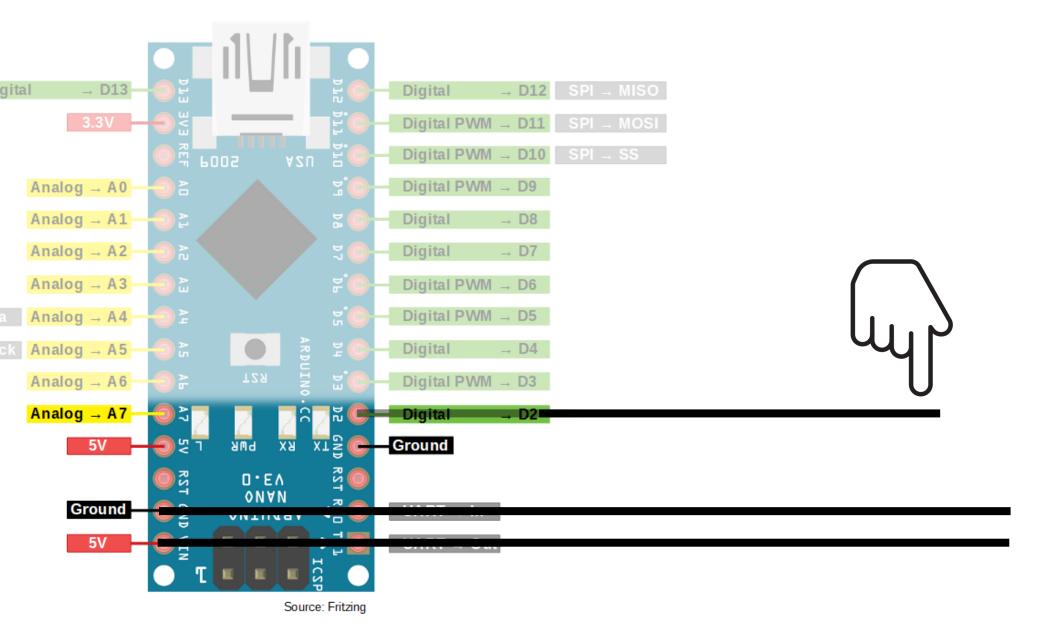
Source: Fritzing

Uloha 1: Rozsviet internu LED podla podla logickeho stavu na vstupnom pine D2

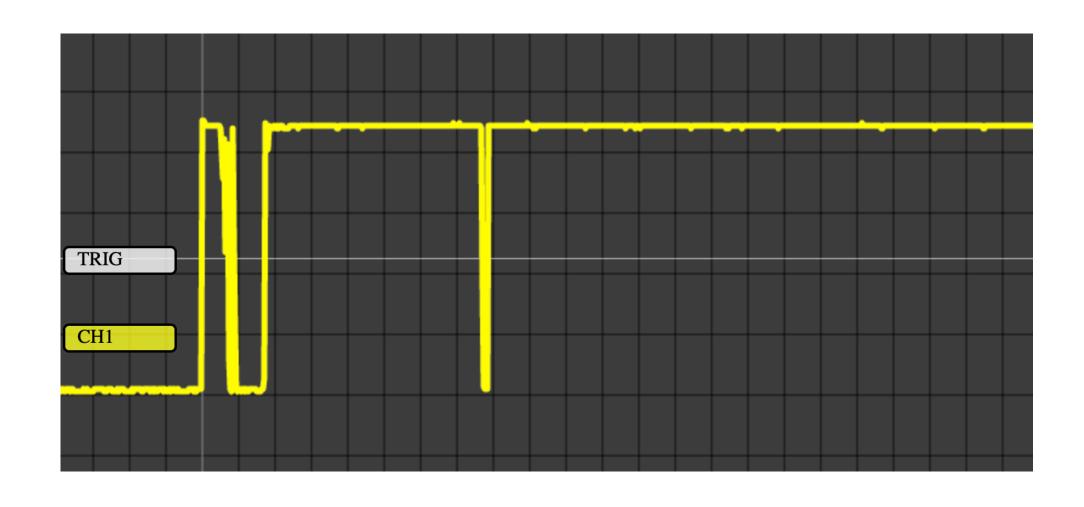
Uloha 2: Vypisuj hodnotu logickeho stavu pinu D2



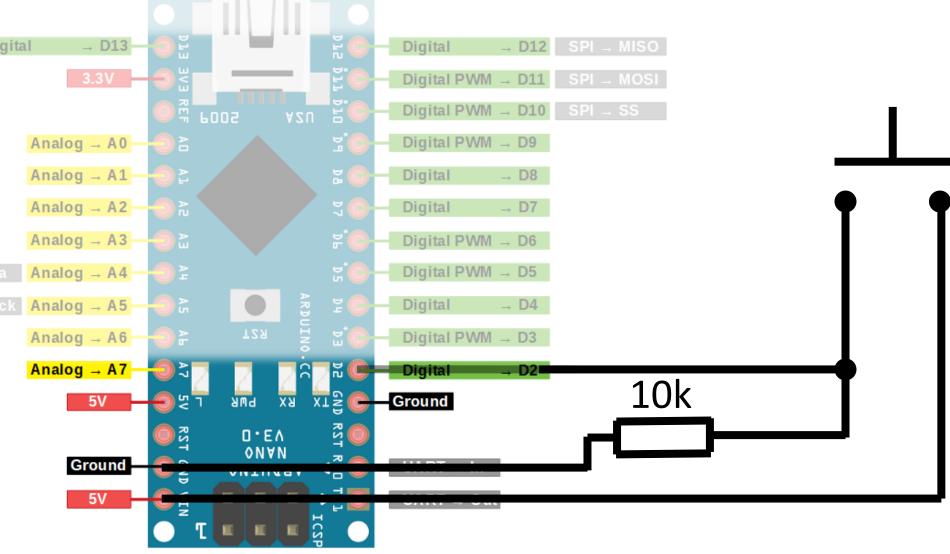




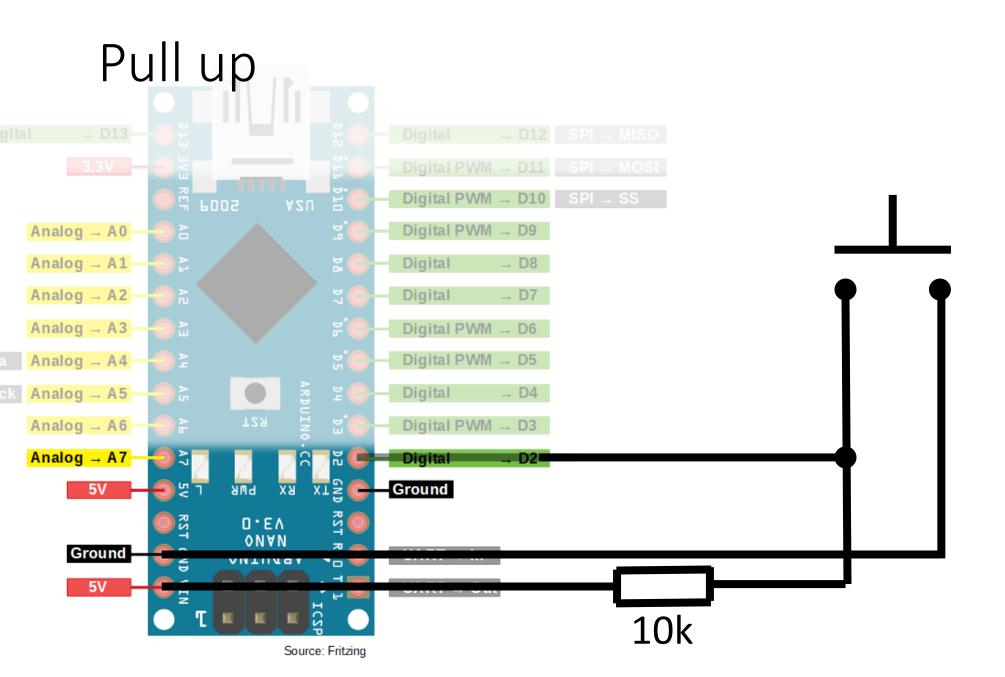
Experiment – sietova kapacitna vazba

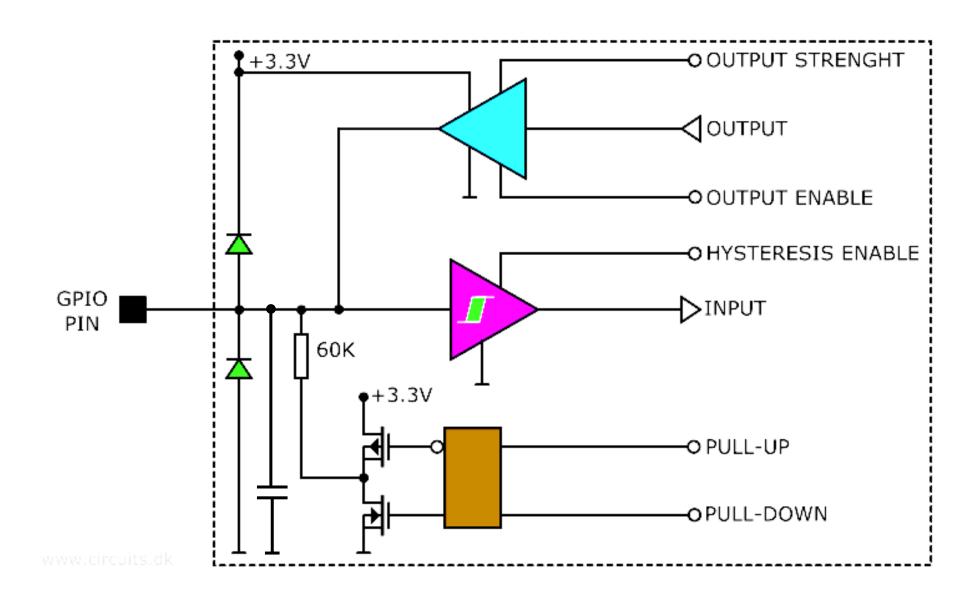


Pull down

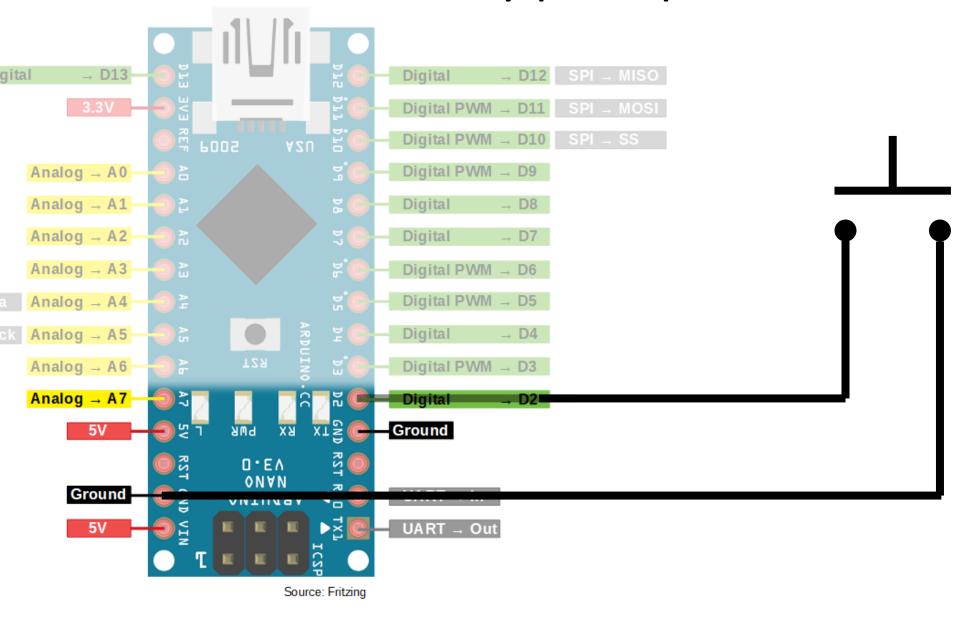


Source: Fritzing



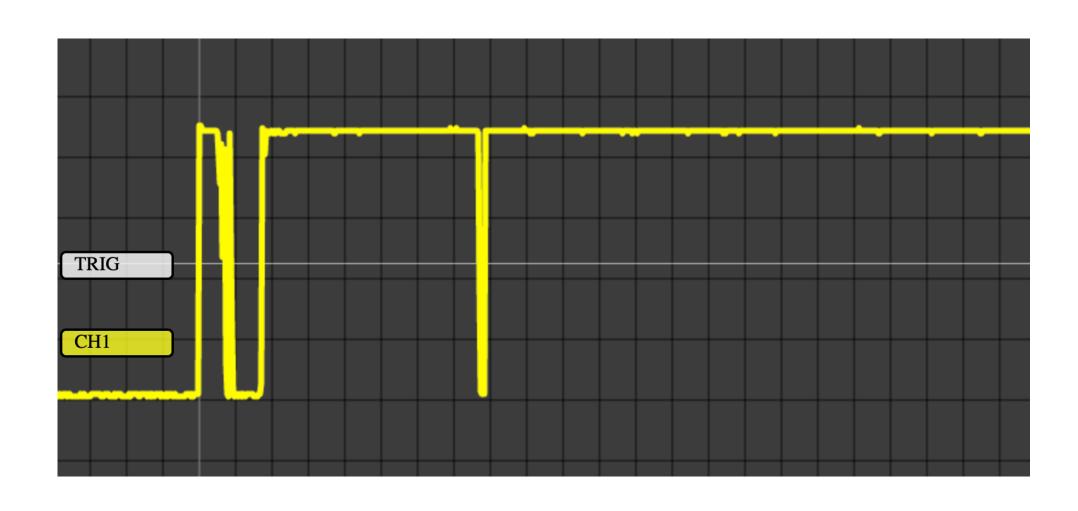


Uloha 3: Softwarovy pull-up



Uloha 4: Detekovat stlacenie a rozopnutie

Experiment – prechodovy jav

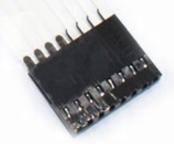


Uloha 5: Detekovat stlacenie a rozpnutie – debouncing

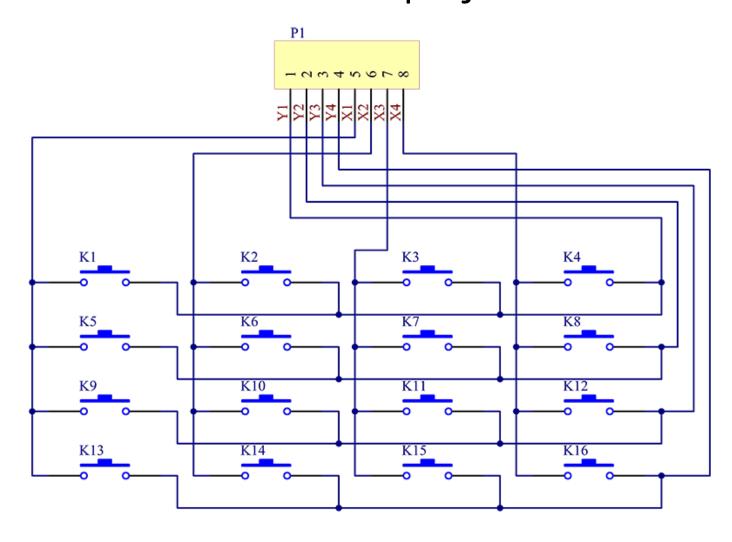
Uloha 6: Prepinat internu led v okamihu stlacenia tlacidla

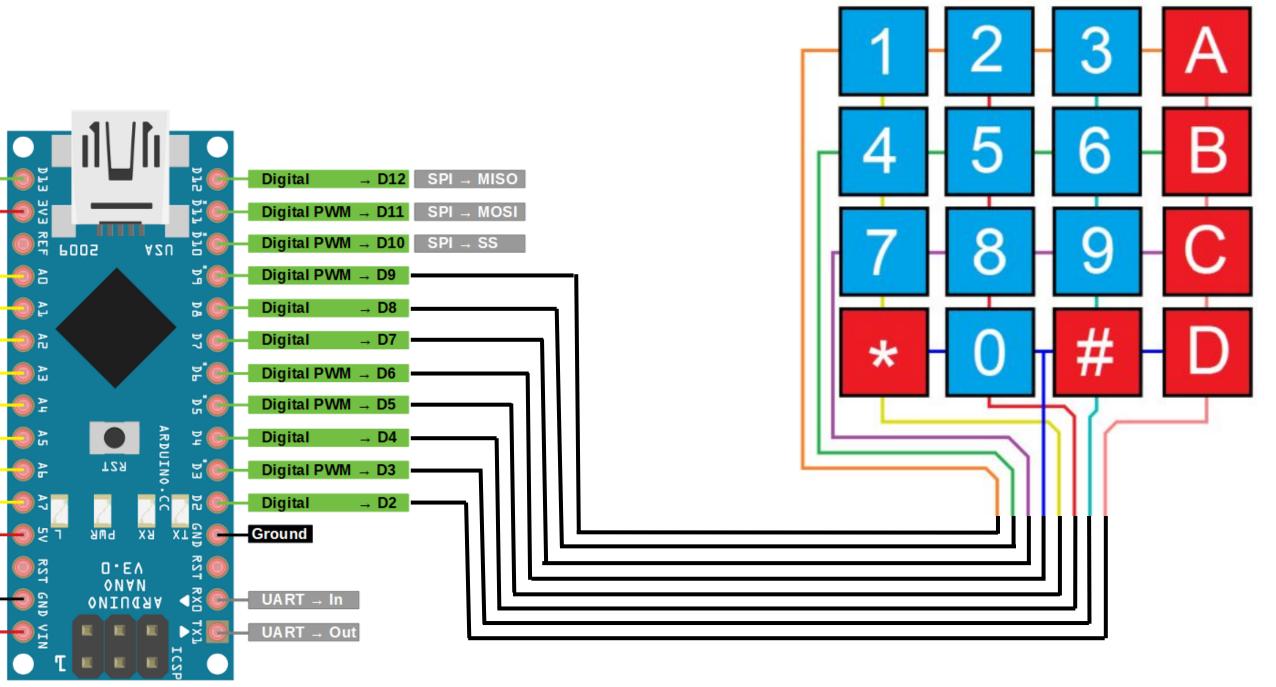
Maticova klavesnica



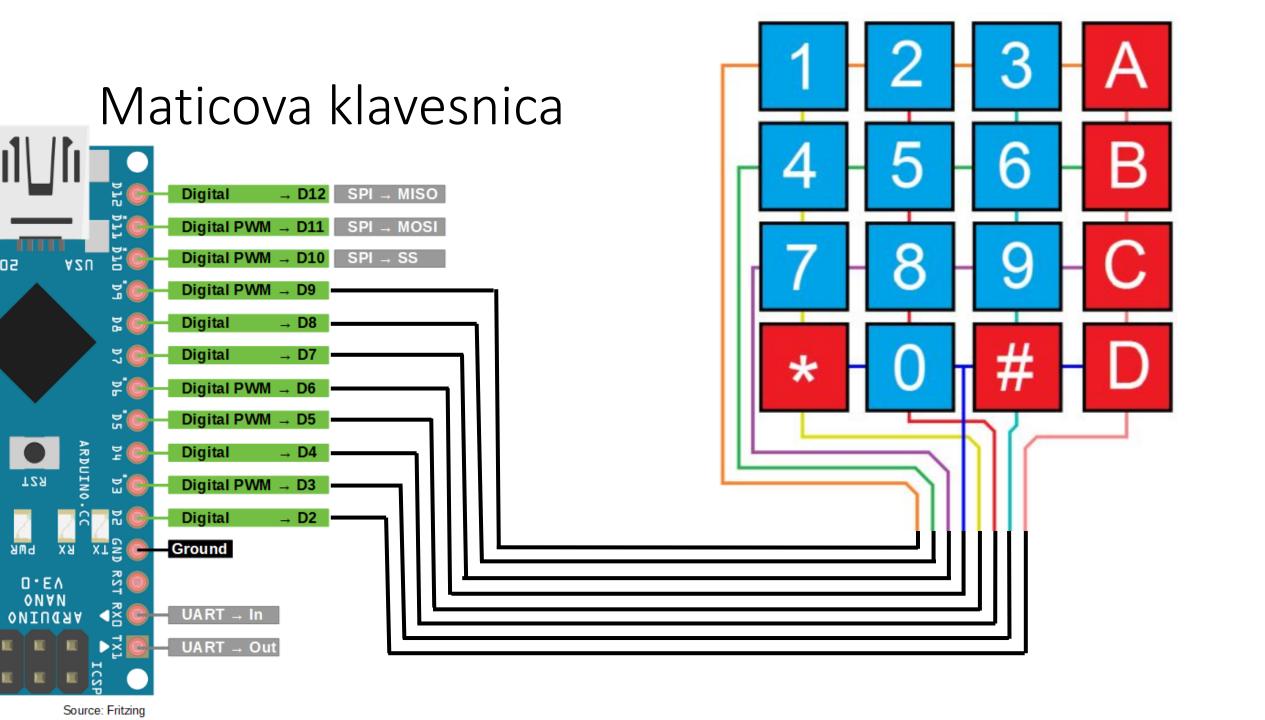


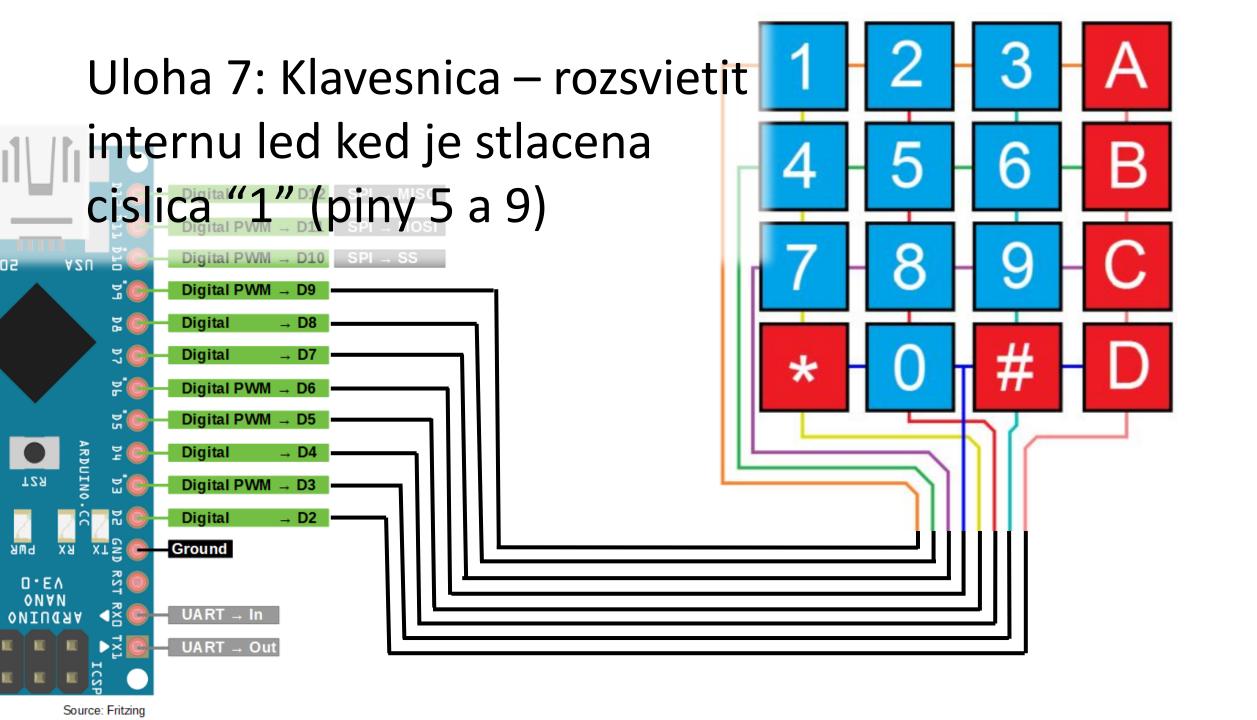
Maticova klavesnica – zapojenie

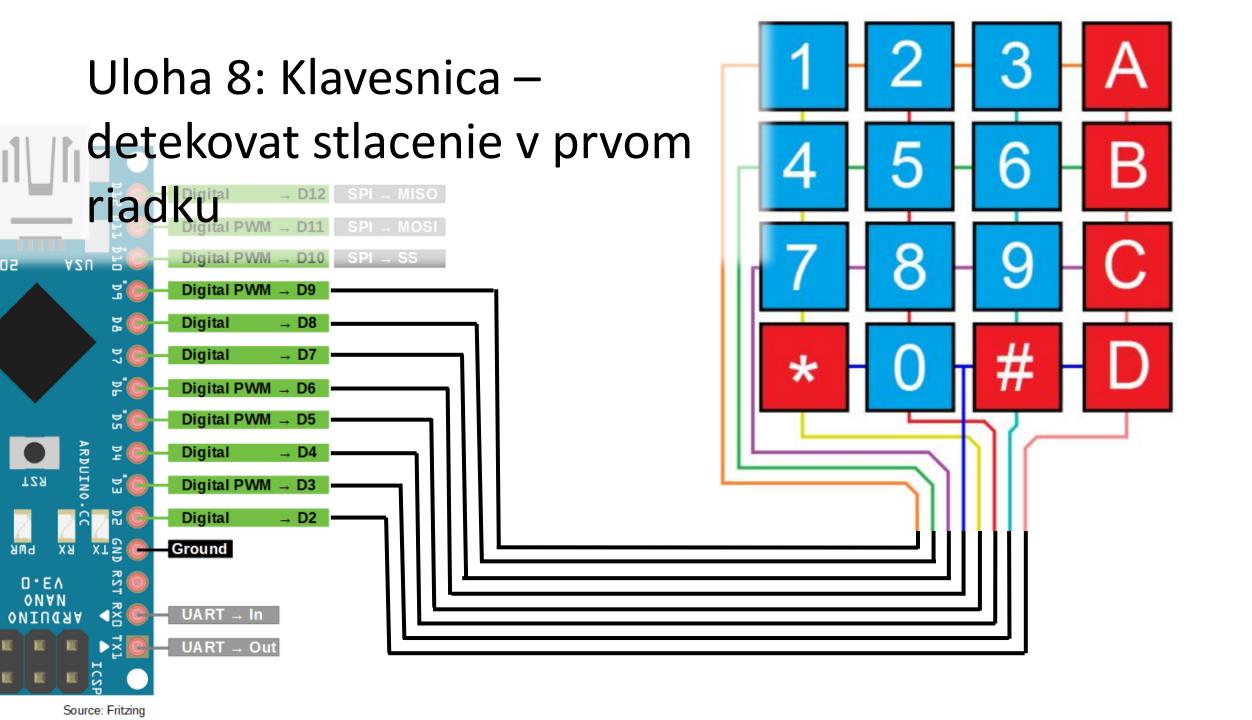




Source: Fritzing







Uloha 9: Klavesnica – detekovat vsetky klavesy

Ukazka 10: Klavesnica – fantomove klavesy

Uloha 11: Klavesnica – dvojznakovy kodovy zamok

Uloha 12: Klavesnica – stvorznakovy kodovy zamok

Dakujem!

Ing. Gabriel Valky, PhD.