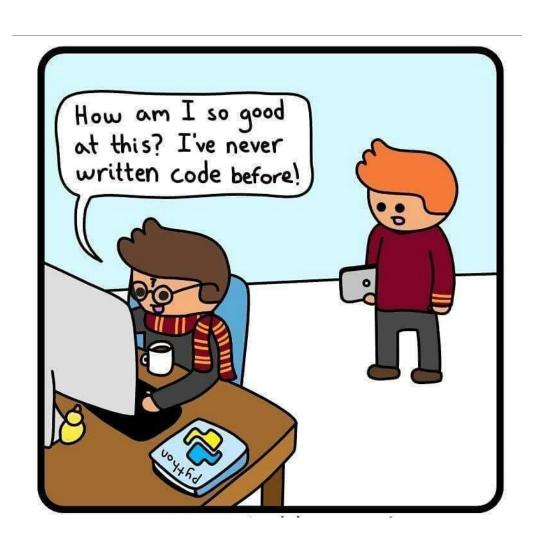
Fundamentals of Computer Science

Exercise Session 12

What do we do today

- Review Assignment 9
- Logic gates
- Repetition of programing basics
- Repetition OOP
- Assignment 5 / Networking stack
- Repetition Data Science basics
- Your questions

You have learned quite a lot ...



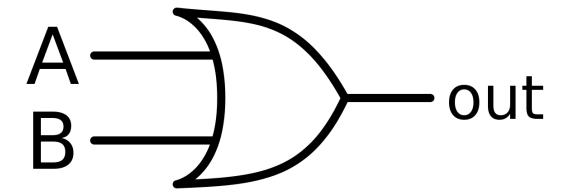
... now just study!

https://fcs-overview.herokuapp.com/

Assignment 9

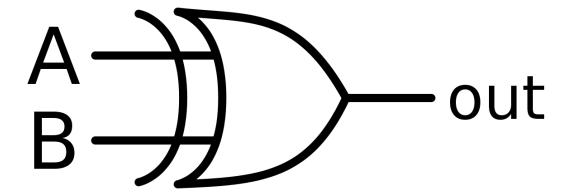
Logic gates – OR

Α	В	out
0	0	0
0	1	1
1	0	1
1	1	1



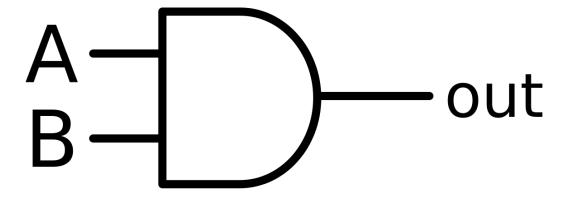
Logic gates – XOR

Α	В	out
0	0	0
0	1	1
1	0	1
1	1	0



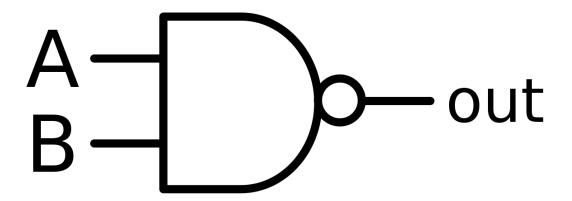
Logic gates – AND

Α	В	out
0	0	0
0	1	0
1	0	0
1	1	1



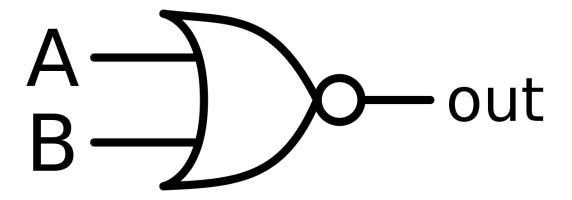
Logic gates – NAND

Α	В	out
0	0	1
0	1	1
1	0	1
1	1	0

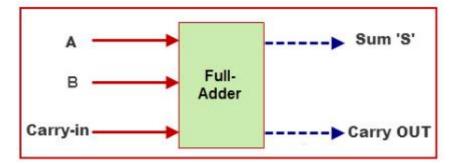


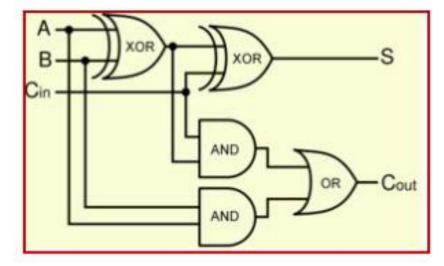
Logic gates – NOR

Α	В	out
0	0	1
0	1	0
1	0	0
1	1	0

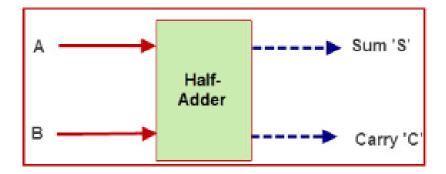


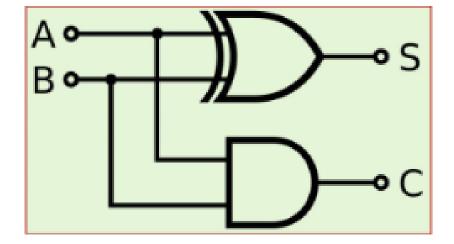
Full-Adder





Half-Adder

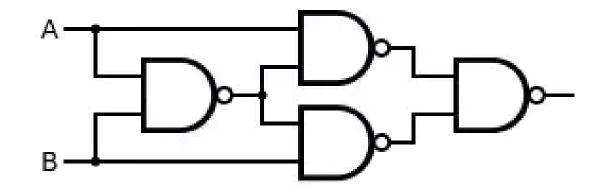




Which logic gate is shown below?

XOR

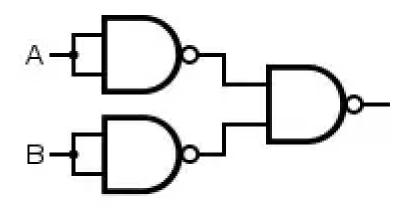
Α	В	out
0	0	0
0	1	1
1	0	1
1	1	0



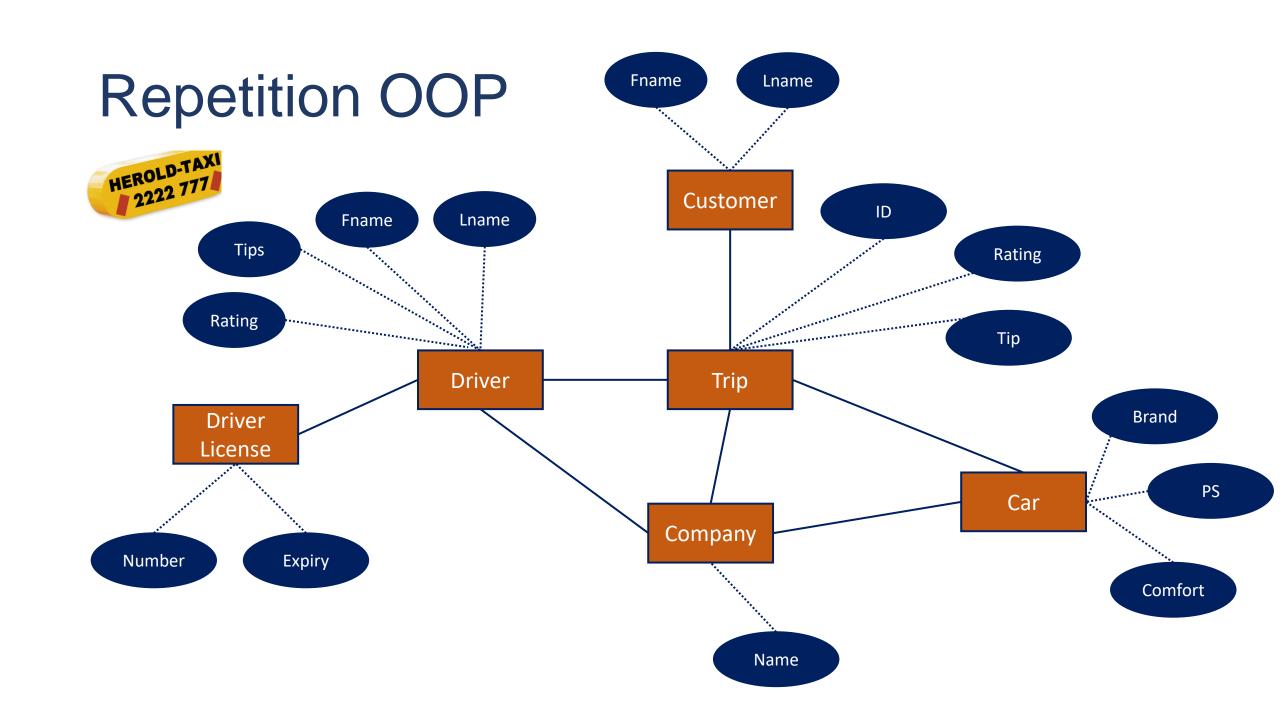
Which logic gate is shown below?

OR

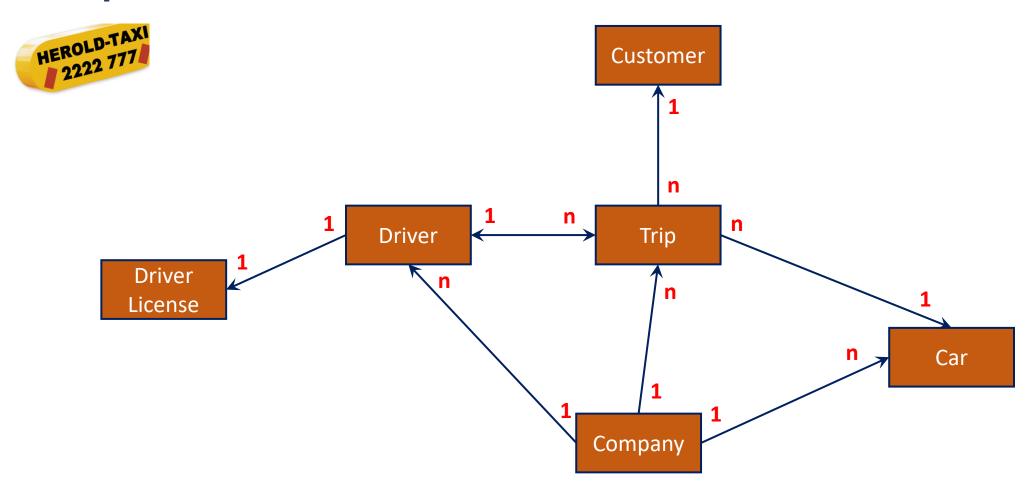
Α	В	out
0	0	0
0	1	1
1	0	1
1	1	1



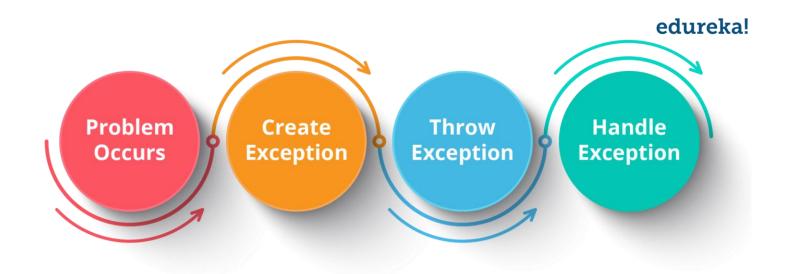
Repetition functional programing



Repetition OOP



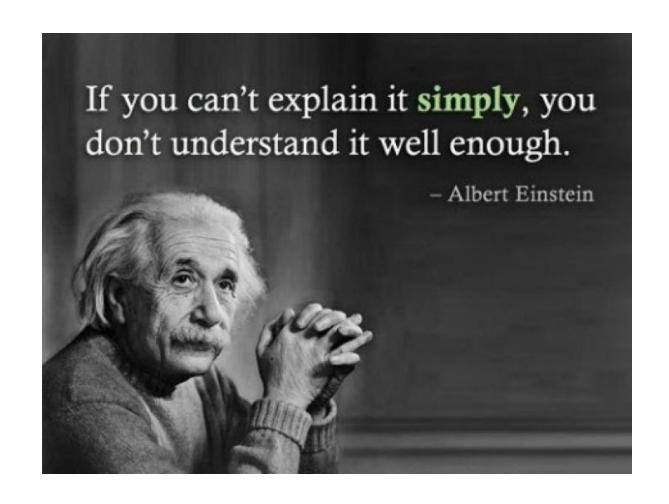
Exception handling



OOP in business

Repetition Data Science

Teach your family, because ...



Let's get it!!

