PROGRAMMING 1 - WEEK 2

Booleans

Conditionals

None

UC Leuven Limburg
MOVING MINDS

Recap - Introduction

- Study Time – Schedule
- Evaluation
- GenAI
- Class Rules

- Setup & workflow
  - VS Code, Git, Python
  - Pytest

Missed it?
Check Toledo!

Recap - Arithmetic

- Functions
- Identifiers
- Operators
- Numbers
- Rounding, min/max
- Local variables

Permanent Evaluation

- Be quiet - no talking
- Don't cheat
  - Look at your own screen
- ONLY allowed to be on ANS
  - No GenAI – No VSCode – ...
  - No ppt – No notes – ...
- Browser full screen
- Display Light 100%
- Guess correction: -0.5 / +1
- Close your laptop when finished

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Booleans

- True (1) and False (0)

- Comparisons:
  - == equal to
  - != not equal to
  - < less than
  - <= less than or equal to
  - > greater than
  - >= greater than or equal to

Booleans - quiz

- 1*4 == 2*2
- 2 != 5/2
- 2 == 4%2
- type(7/3) != type(1)
- type(7/3) == type(9/3)
- 2/2 == True
- True == (2 != 5//2)
- 4.0 == 2*2 == True

TIP: test in pyshell

Booleans

Operators:		
	and	→ *True and False* → *False*
	or	→ *True or False* → *True*
	not	→ *not False* → *True*

x = 3

x == 3

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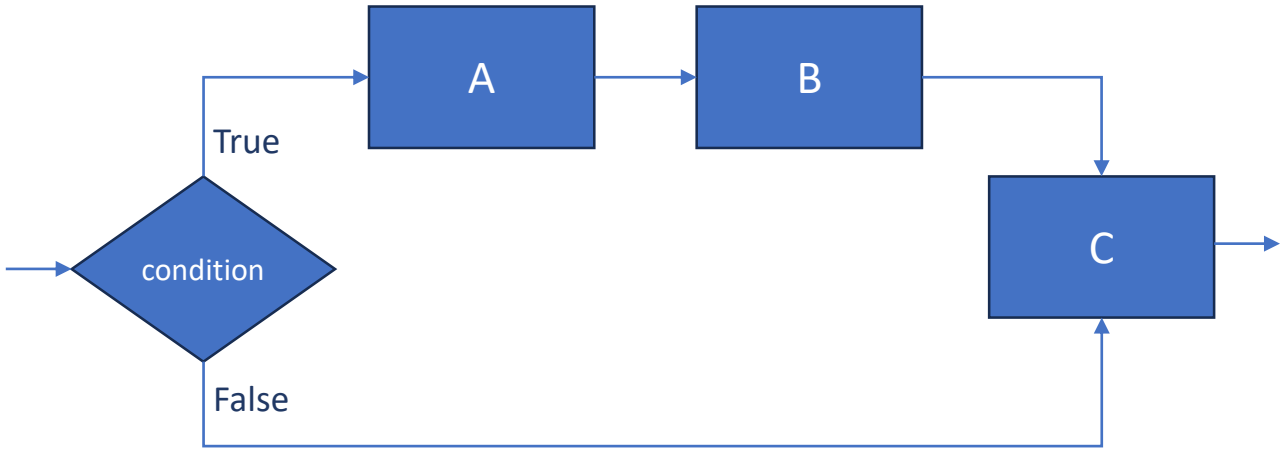
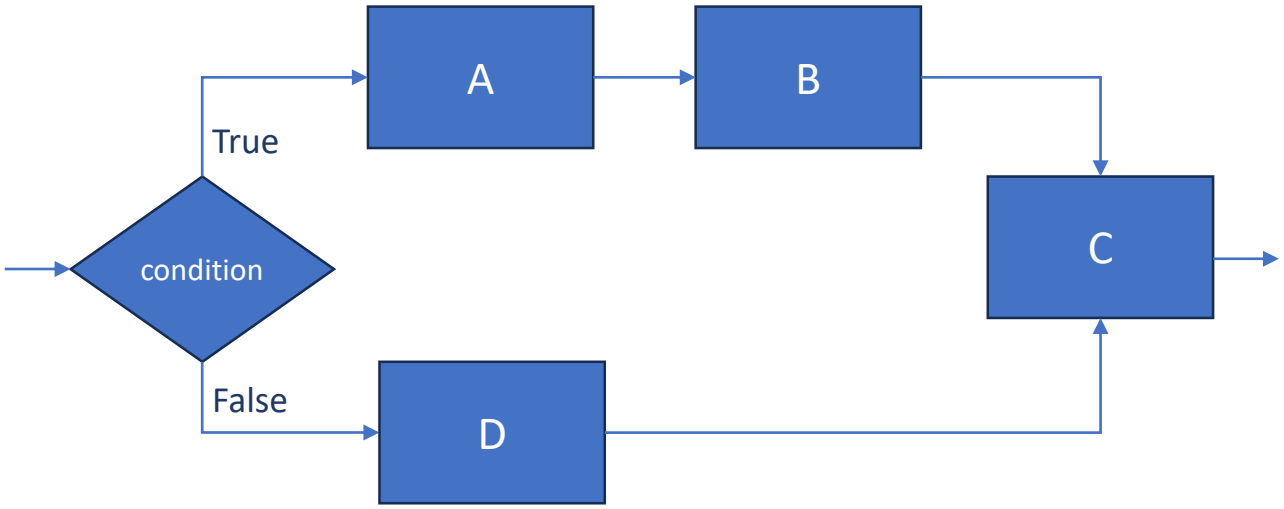
Conditionals

if *condition*:
    do A
    and do B
    …
more instructions (C)



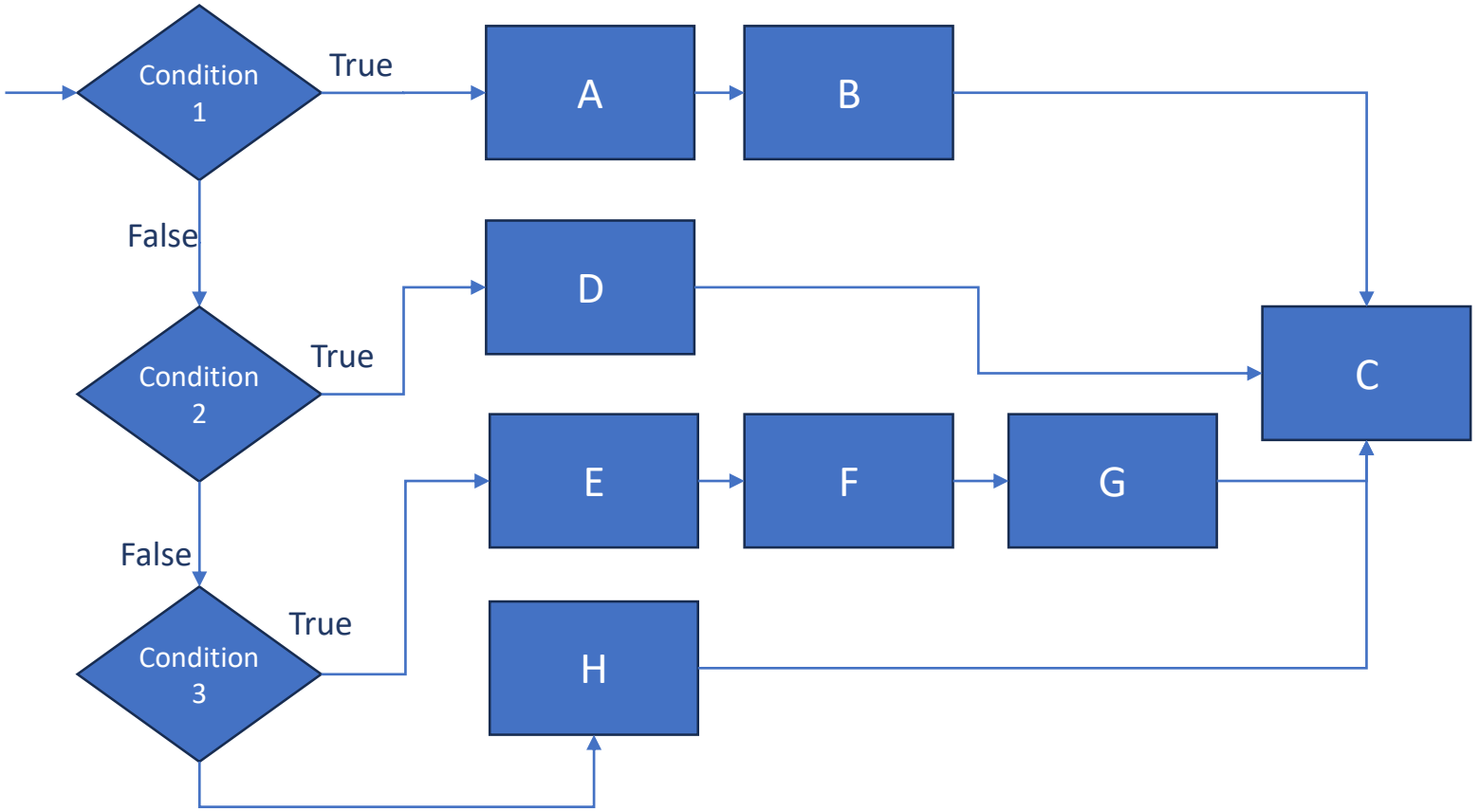
Conditionals

if *condition*:
    do A
    and do B
    …
else:
    do D
    …
more instructions (C)



Conditionals

```
if condition 1:
    do A and B
elif condition 2:
    do D
elif condition 3:
    do E, F, G
else:
    do H
do C
```



Conditionals

A book costs €24.95 for a private individual in the store, but bookstores get a 40% discount when purchasing. Additionally, there is an extra cost for shipping the books. It costs €3 for the first book, and €0.75 for each additional book. The discount does not apply to shipping costs.

Write a function orderBooks(x) for a bookstore where x is a positive integer representing the number of books to order. The function should return the total price for the order in euros, as a floating-point number rounded up to one decimal.

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None

```
def multiply(x,y):
    x*y

result = multiply(2,3)
print(result)
```

None is meant to represent a missing value

→ empty

→ non-existing

0 is a value !

None is <u>not</u> the same as zero !

Questions?

Core, Skills, Work?