



# CS-A113 Basics in Programming Y1

2nd Lecture  
21.09.2021

# FAQ

A+ CS-A1113 Basics in Programming Y1 ▾

## Course

CS-A1113

Course materials

Your points

Code Vault

Python documentation

## Course staff

Participants

Groups

All results

Visualizations

« Exercise 1

CS-A1113 / Round 1, The basics of Python programming /

## Exercise 2

Points 0 / 100

My submissions 1 / 10

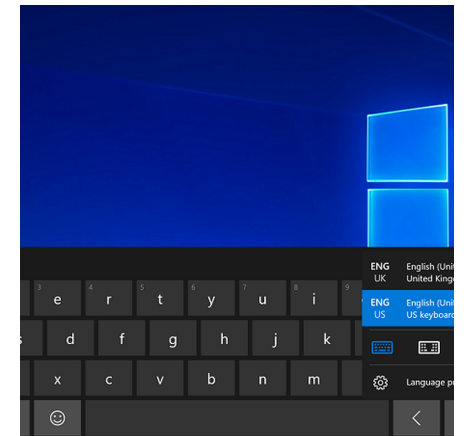
Deadline To be s

Round 1, exercise 2: First program

First program

The exercise is about the following topics:

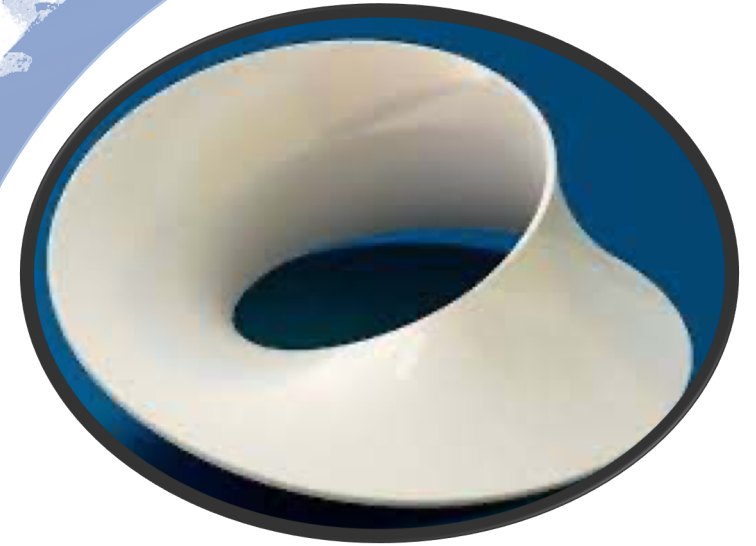
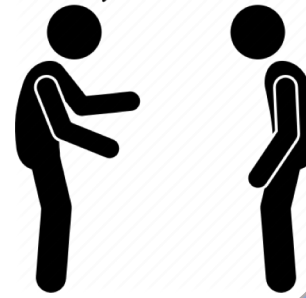
The screenshot shows the MyCourses interface. The sidebar on the left contains a menu with the following items: CS-A1113 - Basics in Programming Y1, Lecture, 14.9.2021-9.12.2021; Participants; Grades; Sections (expanded to show: Welcome to Basics in Programming Y1; Course Requirements; Lectures; Exercises; Exercise Sessions; Slack workspace; The Gang and Contact; Setting up a Python IDE; Asking for help; Group work and plagiarism); Dashboard / My own courses / cs-a1113 - ba... / Sections /; Asking for help; You can ask for help with the weekly Exercises eith; Asking for help with a well-defined ques; "My program does not work, please help." This this one take a lot of time for the answerer to try t



TRUE  
OR FALSE ?

Boolean Values &  
Logical Operators

Conditional Statements  
If then else



Loops

Topics Today

# Boolean Values & Logical Operators

TRUE

OR FALSE

?

# Boolean Values & Logical Operators

Statements:

- a) Timo Kiravuo is the lecturer of CS-A1113 -> True
- b) Timo Kiravuo is the lecturer of CS-A1111 -> False
- c) You are a student of the lecture CS-A1113 -> True
- d) You are a student of the lecture CS-A1111 -> False

# Boolean Values & Logical Operators:

Operators:

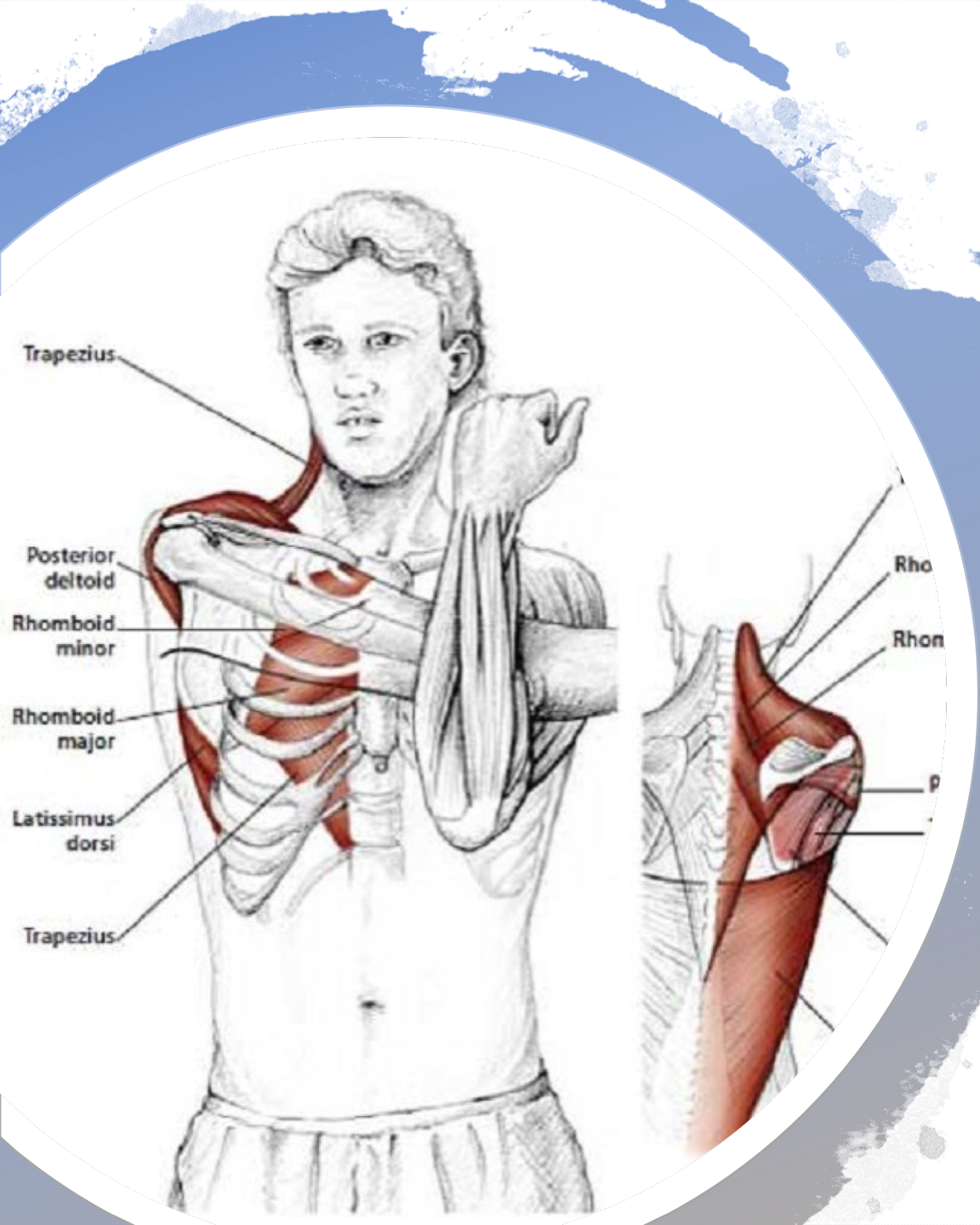
not a: is the logical opposite of a

a and b: is True if both, a and b are True, otherwise False

a or b: is True, if either a or b, or both are True.




Do not apply  
in real life!



Break: Move your  
Shoulders




# Conditionals

A diagram illustrating a conditional statement. It features two black stick figures. The figure on the left is gesturing towards the figure on the right. A speech bubble originates from the left figure, containing the text: "Are you still in the shop?" followed by "Bring milk!".

Are you still in  
the shop?  
Bring milk!

if (you are still in the shop):  
bring milk

# Conditionals



Are you still in  
the shop?  
Bring milk!

if (you are still in the shop):  
    bring milk

else:  
    ask our neighbour for milk

# Conditionals

Are you in the  
K-Market or in  
the S-Market?



# Conditionals

if (in K-Market):

bring Pirkka Kahvi

elif (in S-Market):

bring Rainbow Kahvi

else:

bring any coffee and sugar!



# Conditional Example 1

```
def main():  
    age = int(input("Enter your age!\n"))  
    if (age < 18):  
        print("You cannot legally drink in Finland!")  
    else:  
        print("Enjoy your drink!")
```

## Conditional Example 2

```
def main():  
    age = int(input("Enter your age!\n"))  
    if (age < 18):  
        print("No drinks (US or Fi)")  
    if (age < 21):  
        print("No drinks in the US, but enjoy your drink in Finland!")  
    else:  
        print("Enjoy your drink!")
```

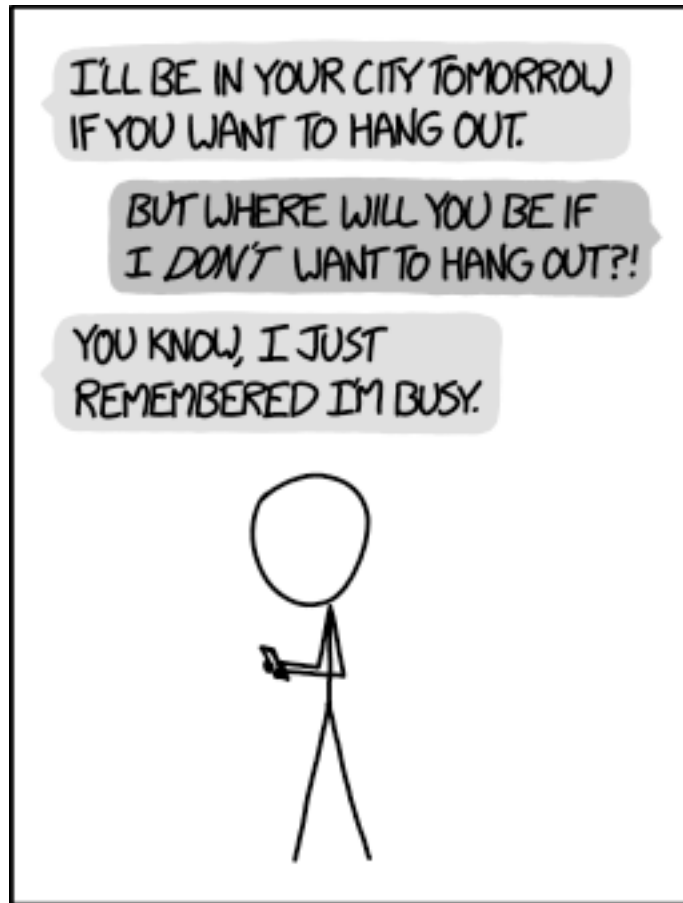
## Conditional Example 2

```
def main():  
    age = int(input("Enter your age!\n"))  
    if (age < 18):  
        print("No drinks (US or Fi)")  
    if (age < 21):  
        print("No drinks in the US, but enjoy your drink in Finland!")  
    else:  
        print("Enjoy your drink!")
```

elif



# Conditionals



WHY I TRY NOT TO BE  
PEDANTIC ABOUT CONDITIONALS.

<https://xkcd.com/>



```
def testBooleanValue(testVariable):  
    if testVariable:  
        print(testVariable)  
        print("was evaluated as True")  
    else:  
        print(testVariable)  
        print("was evaluated False")
```

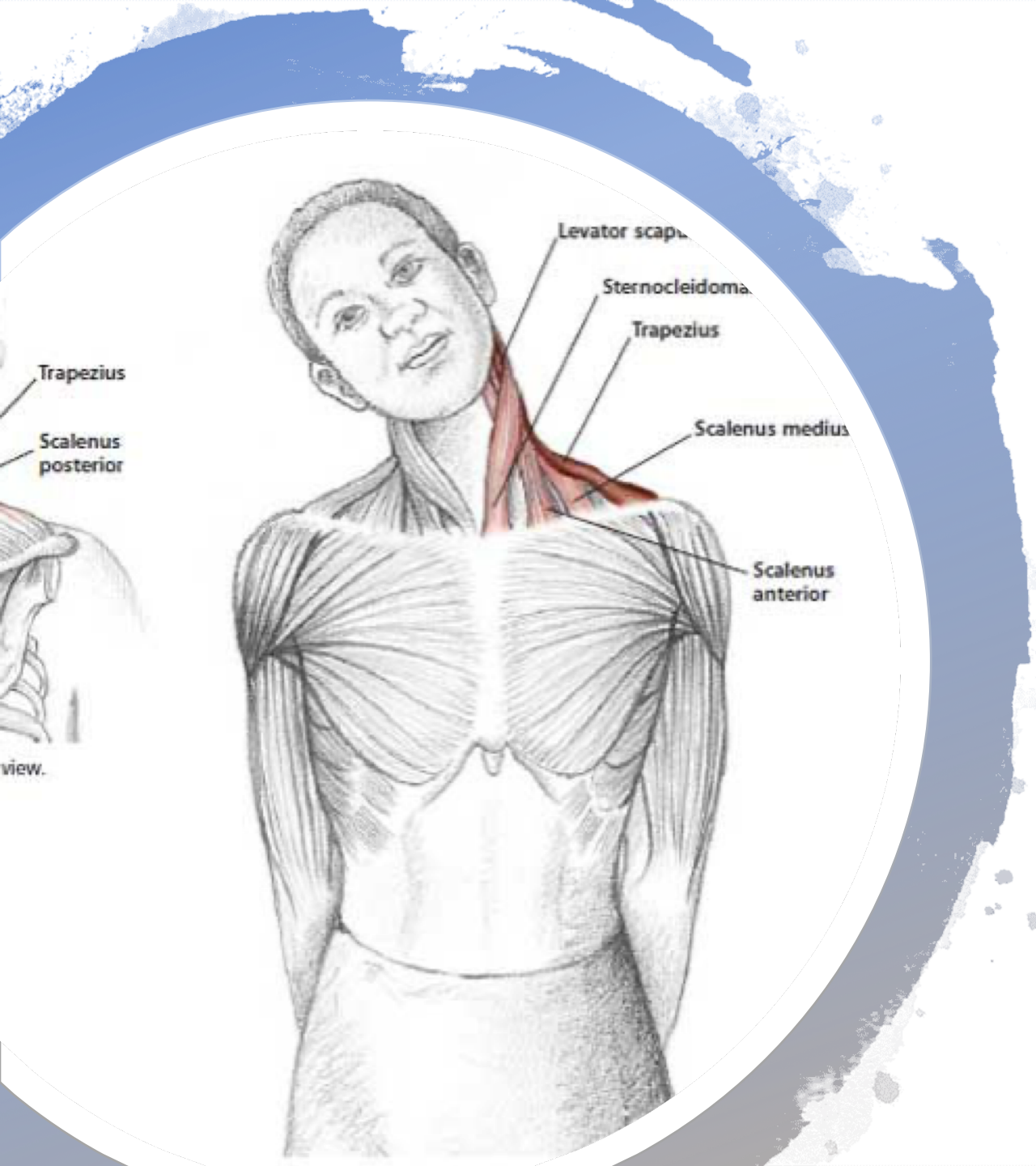
Relays  
in Relay

Started Relays change  
Cosine Tape  
Started Multi-Add



5  
5  
E/630 First actual case  
10 and agent started.  
closed down.

# Bugs and Debugging



Break:  
Move your Neck!

# Loops

```
while (I am thirsty):  
    drink water
```

```
def countTo100():  
    i = 1  
    while i < 101:  
        print(i)  
        i += 1
```



# Loops

```
def superLoop():
```

```
    i = 1
```

```
    j = i
```

```
    while i < 5:
```

```
        print(i)
```

```
        j += 1
```





*“That’s all Folks!”*

lsberg<sup>®</sup>