CS-A113 Basics in Programming Y1

2nd Lecture
21.09.2021

FAQ

CS-A1113 - Basics in Programming Y1, Lecture, 14.9.2021-9.12.2021

Participants

Grades

Sections

» 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

CS-A1113 - Basics in Progra

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

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 /
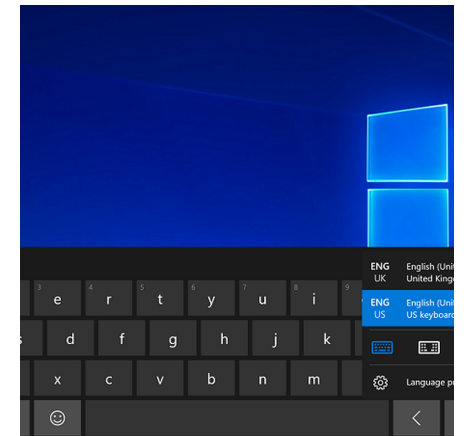
Exercise 2

Points **0 / 100**   My submissions **1 / 10** ▾   Deadlin

To be s

Round 1, exercise 2: First program

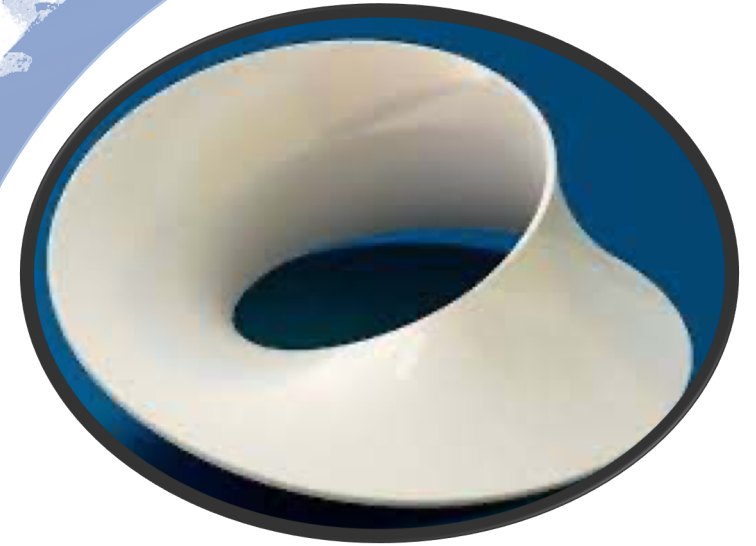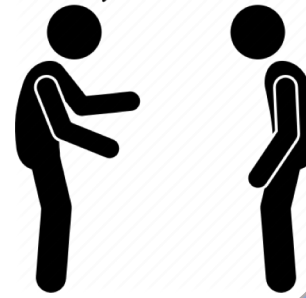## First program

The exercise is about the following topics:

Conditional Statements
If then else

Boolean Values &
Logical Operators

Topics Today

Loops

Boolean Values & Logical Operators

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:
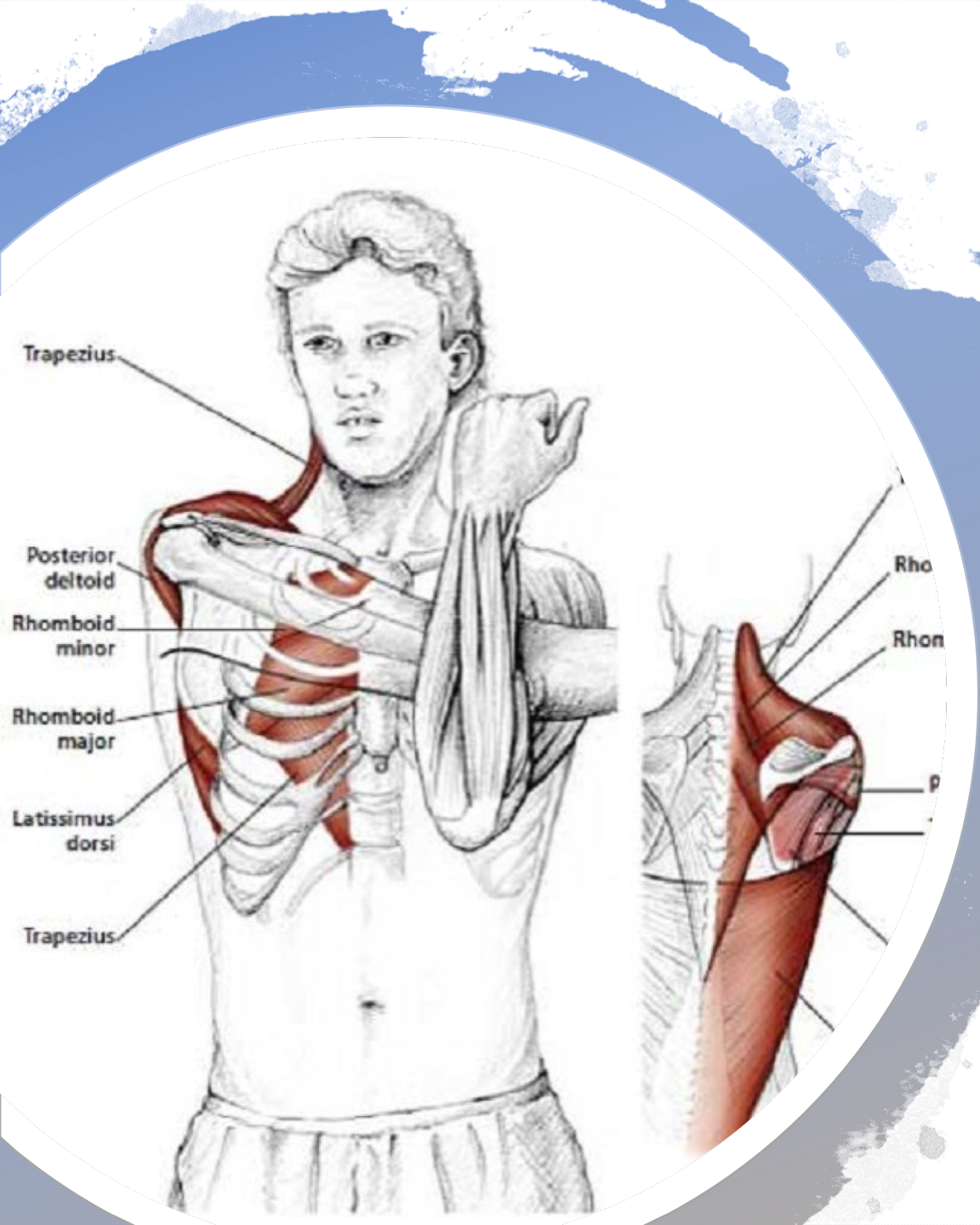
Operators:

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

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

Conditionals

if (in K-Market):

bring Pirkka Kahvi

elif (in S-Market):

bring Rainbow Kahvi

else:

bring any coffee and sugar!

Conditional Example 1

```python
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

```python
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!")
```
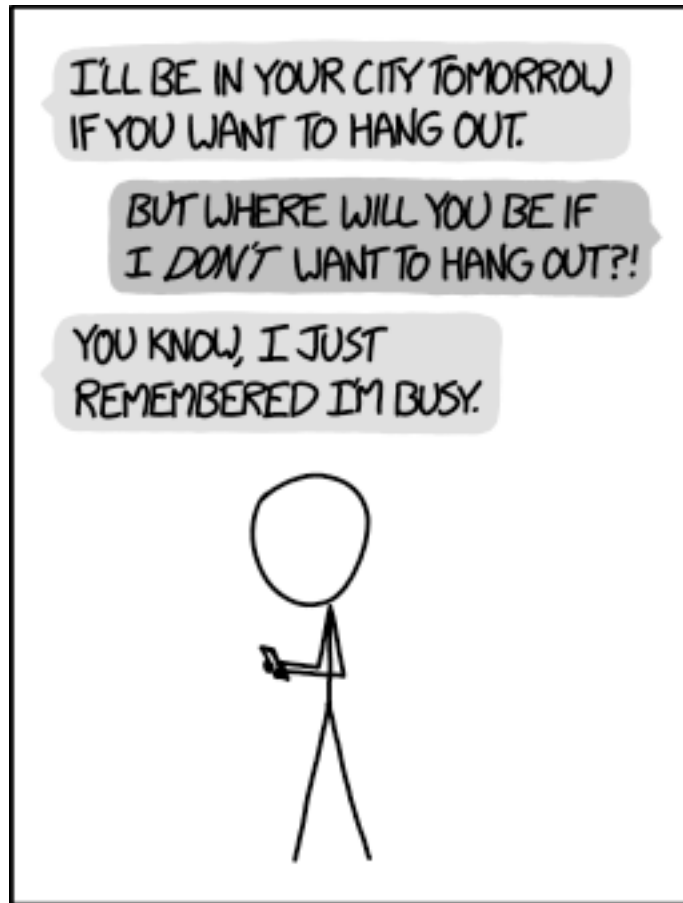
Conditional Example 2

```
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

https://xkcd.com/

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

    else:
        print(testVariable)
        print("was evaluated False")
```
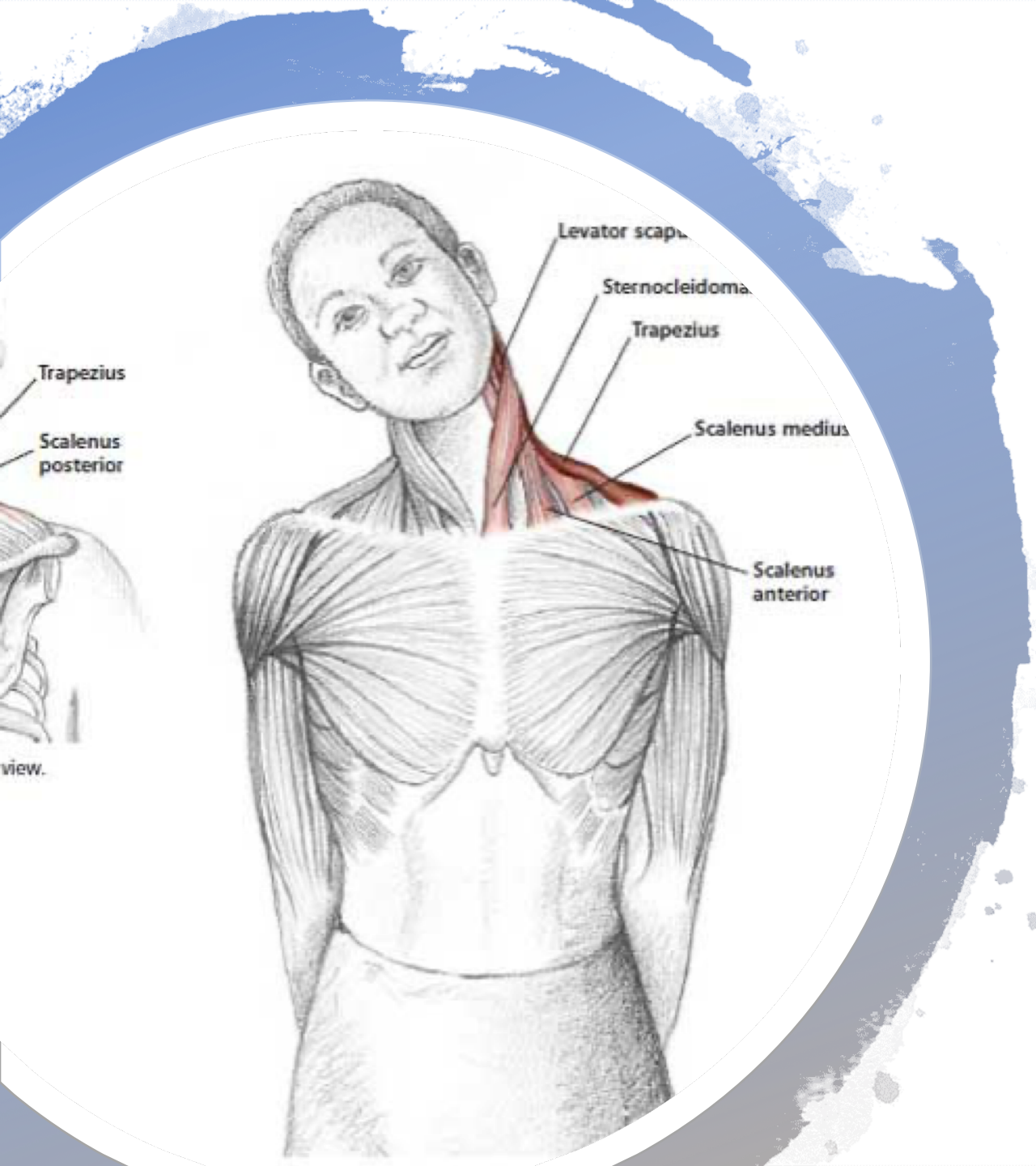
Bugs and Debugging

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!"