



The Lecture

- Join with Video Makes my life nicer!
- Feel free to open your microphone and ask questions
- Feel free to write questions into the chat
- We will record the sessions and put it unlisted on youtube.



Interactions Today:

Go to: https://kahoot.it/

Who are you?

Fill out the mandatory questionnaire until Thursday!

Thanks for helping research for those who already did! – Please help research for the others ©



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



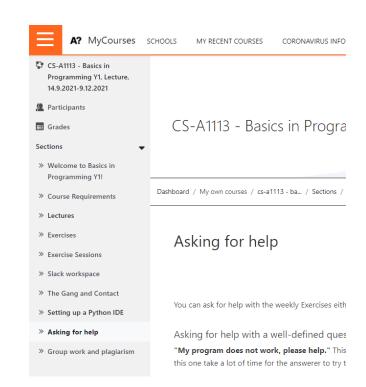
Exercise 2



Round 1, exercise 2: First program

First program

The exercise is about the following topics:



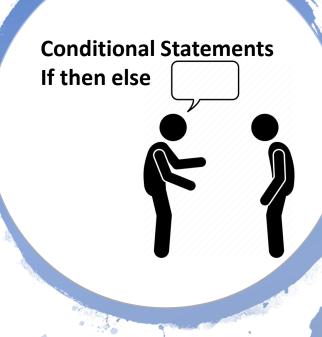






Boolean Values & Logical Operators

Topics Today





Loops

Boolean Values & Logical Operators



Boolean Values & Logical Operators

Statements:

- a) Barbara Keller is the lecturer of CS-A1113 -> True
- b) Barbara Keller 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.

Go to: https://kahoot.it/



Statements:

- a) Barbara Keller is the lecturer of CS-A1113 -> True
- b) Barbara Keller is the lecturer of CS-A1111 -> False
- c) You are a student of the lecture CS-A1113 -> True
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Operators:

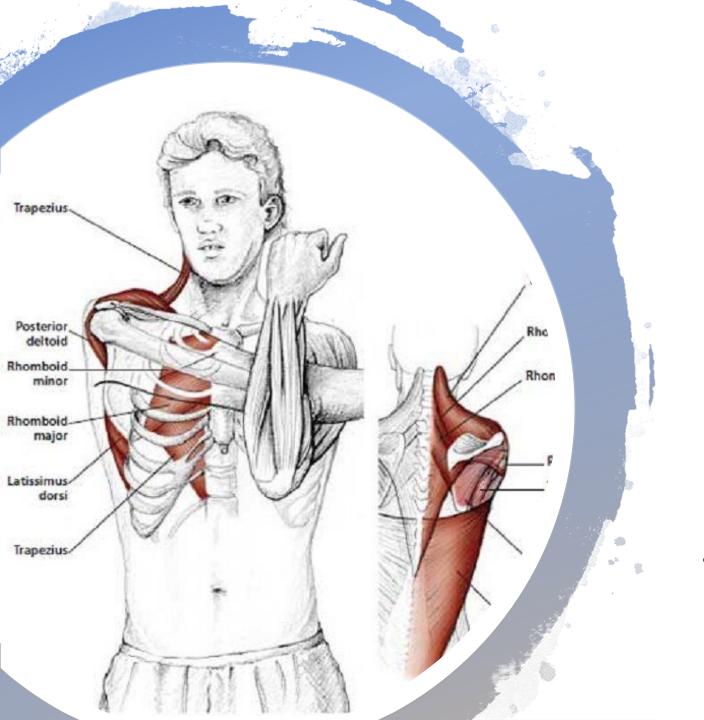
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a and b: is True if both, a and b are True, otherwise False

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Do not apply in real life!



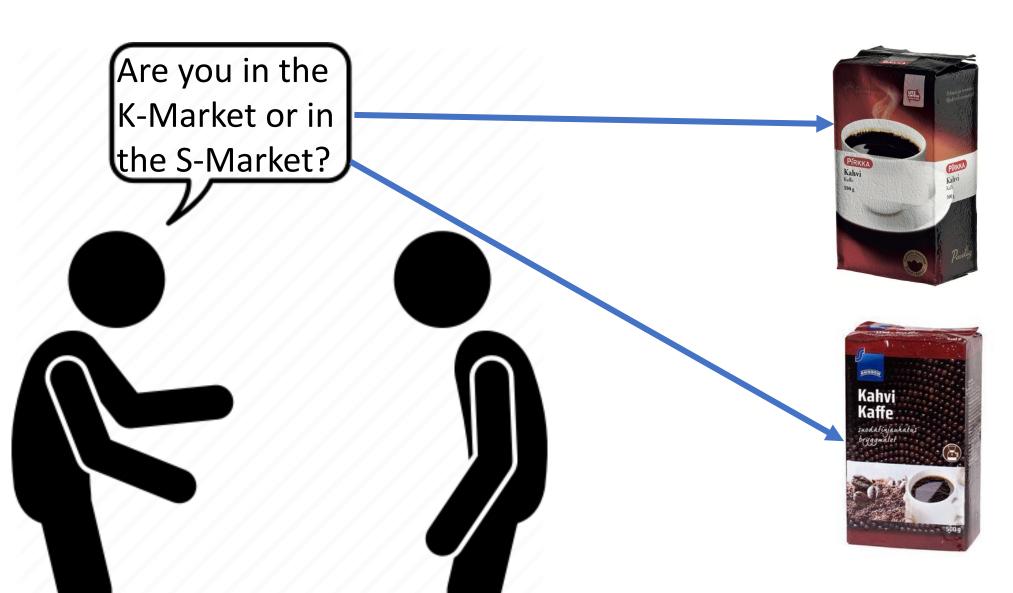
Break: Move your Shoulders

Are you still in the shop? Bring milk!

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

Are you still in the shop? Bring milk!

if (you are still in the shop):
 bring milk
else:
 ask our neighbour for milk



if (in K-Market):

bring Pirkka Kahvi

elif (in S-Market):

bring Rainbow Kahvi

else:

bring any coffee and sugar!













Conditional Example 1

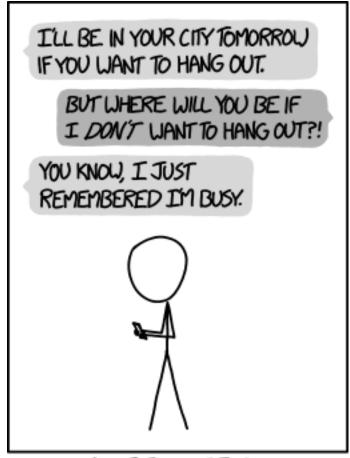
```
def main():
    age = int(input("Enter your age!\n"))
    if (age < 18):
        print("You cannot legally drink in Finland!")
    else:
        print("Enjoy your drink!")</pre>
```



Go to: https://kahoot.it/

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!")</pre>
```



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")
```

Boolean Values and Conditionals Revisited

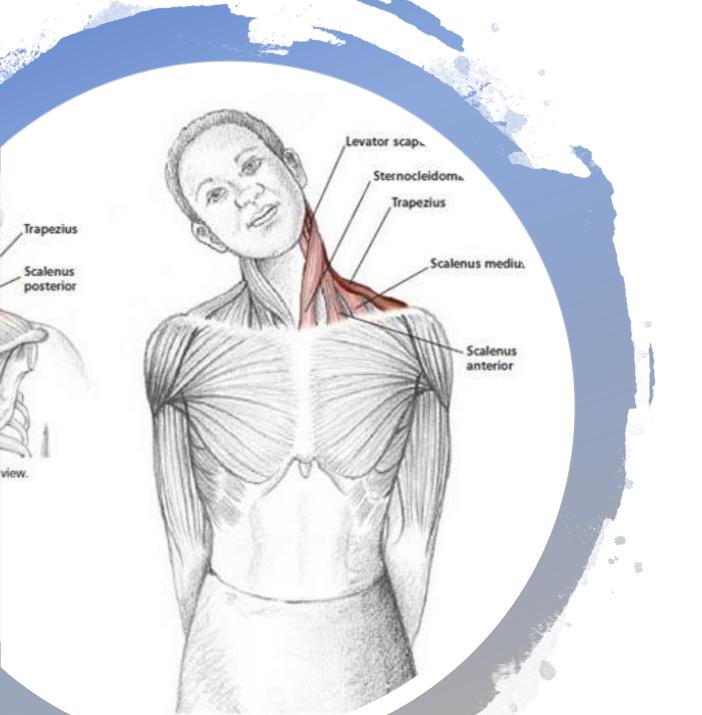


Go to:

https://kahoot.it/

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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</pre>
```





Go to: https://kahoot.it/

Loops

```
def superLoop():
    i = 1
    j = i
    while i < 5:
        print(i)
        j += 1</pre>
```



