

WORKSHOP #2

Data Types & Operators



Exercises



1. Look at the following customer data form, and decide which data types (**str**, **int**, **float**, or **bool**) should be used to store each field.

- Name
- Customer ID
- Address
- Postcode
- Do you own or rent?
- Length of bench top
- Width of bench top
- Are you interested in further offers?



Exercises



2. Evaluate the following:

(a) `str(3 + 4) + "cakes"`

(b) `int(5 / 2)`

(c) `float("357" + "." + "23")`

(d) `bool("anything")`



Exercises



3. What is the output of the following? Why?

(a) `123 + 123`

(d) `3 * 4`

(b) `"123" + "123"`

(e) `"3" * 4`

(c) `"123" + 123`

(f) `"3" * "4"`



Exercises



4. Evaluate the following given the assignments $a = 1$, $b = 2$, $c = 2.0$:

(a) a / a

(e) $a // b$

(b) $b + b$

(f) $a \% b$

(c) $b + c$

(g) $a + b / c$

(d) a / b

(h) $(a + b) / c$



Problems



1. Write a program which asks the user for their age and calculates the year in which they were born.

(There will be two possibilities since you haven't asked for their birth date, so print both)





Problems



2. Write a program which asks the user for two numbers and multiplies them together, printing the equation in the form $1 * 2 = 2$ for the case of 1 and 2.





Problems



3. Write a program which asks the user for a temperature in degrees Fahrenheit and prints the corresponding value in Celsius.

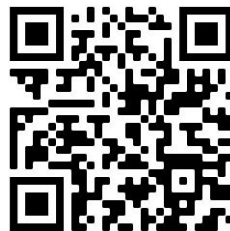
The conversion formula is as follows:

$$C = (F - 32) / 1.8$$



Announcements

- Slides + Notes currently on GitHub.
 - Link: <https://github.com/theshevon/COMP10001>



- Solutions will be posted on Fri, Sat or Sun.
 - Please read the instructions on how to access Jupyter Notebook files
- Grok Worksheets 3 & 4 are due next Monday (23/03)