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`

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

(c) `"123" + 123`

(d) `3 * 4`

(e) `"3" * 4`

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

# Exercises

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

(a) `a / a`

(b) `b + b`

(c) `b + c`

(d) `a / b`

(e) `a // b`

(f) `a % b`

(g) `a + b / c`

(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)