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Python Lab 1.1: Variables and Types

Recall that Python supports multiple "data types" among them strings, floats and integers. It is important to note that the data type of a variable matters!

Open lab1_1.py in the text editor. At first glance, it looks like it

```
1. prompts the user for two inputs, x and y,
```

- 2. adds x and y, storing the sum in z, and
- 3. prints z.

But let's look more closely.

Execute your program by typing: python lab1_1.py in the terminal window at bottom-right, followed by Enter.

- When prompted for x, input 1, followed by Enter.
- When prompted for y, again input 1, followed by Enter.

How curious!

Python thinks that 1+1=11

{% next %}

Not what you expected!

Contrary to what this program thinks, 1 plus 1 does not equal 11! The sum should, of course, equal 2.

Modify lab1_1.py in the text editor at top-right in such a way that the program correctly outputs the sum of x and y.

► Hint 1:

```
Try to convert your x and y inputs into a numeric data type.
```

If you need extra help ...

► Hint 2:

Consider using the float function, so your program can add floating point numbers as well as integers!

{% next %}

If you want extra help... here is the solution:

► SOLUTION:

```
z = float(x) + float(y)
```

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Execute your program

Provide the value 1 for x, and 1 for y

Remember in order to execute your code you type in the terminal:

```
python lab1_1.py
```

Make sure that the output is 2.0!

{% next %}

Check Your Code

Execute the below to evaluate the correctness of your code using check50, but be sure to test it yourself before that...

```
check50 mkotsovoulou/ods6001a/main/labs/lab1_1
```

Execute the below to evaluate the style of your code using style50.

```
style50 lab1_1.py
```

{% next %}

access-token

Submit your code

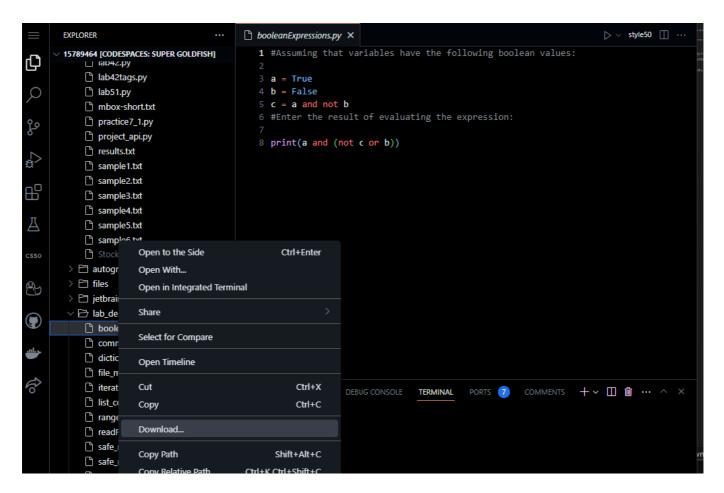
Execute the command below, logging in with your GitHub username and Personal Access Token when prompted. For security, you'll see asterisks (*) instead of the actual characters in your token.

If you do not have generated a Personal Access ToKen follow the instructions: https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/creating-a-personal-

```
submit50 mkotsovoulou/ods6001a/main/labs/lab1_1
```

You can re-submit your solution as many times as you want. When you are happy with your solution, download the code and upload it to Canvas.

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Done!

