COMP 143—301 Week 4

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Exercise Review

Variable Names

 $\begin{array}{lll} number_one_{\square}--_{\square}Proper\\ user_sum_{\square\square}--_{\square}Proper\\ number1_{\square\square}--_{\square}Proper\\ one_number_{\square\square}--_{\square}Proper\\ 1_number_{\square}--_{\square}Improper \end{array}$

Variable Assignment

user_id=10
user_name="Alex"
is_admin=True

'Type' Function

The type function is a useful piece of code that can be used to determine what datatype a given variable is. We said that there are only 4 datatypes in python. However, this isn't strictly true.

- Integer
- Float
- Complex Number
- Boolean
- String
- List, Tuple, Set, Dictionary

We will cover more of these later in the semester.

By using the 'type' function, it will tell us what datatype a variable falls under. The 'type' function will return information regarding the datatype of an object Lets do some examples:

```
type("Hello") -> <class 'str'>
type(1) -> <class 'int'>
type(4.1) -> <class 'float'>
type(True) -> <class 'bool'>
```

Using Variables

Make a variable called tax_rate, and set it to 0.0625. Then, create a variable called item_price, and set it to 20.0. Using these 2 variables, calculate the **total cost** of the item **and** tax.