

# COMP 143—301

## Week 4

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## Exercise Review

### Proper Variables

```
number_one
user_sum
number1
one_number
1_number
```

### 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
- String
- List, Tuple, Set, Dictionary
- Boolean
- ‘Type’

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 a variable with the datatype ‘type’

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.