Python Curriculum

Part 01 - Immediate Applications (2/2)

Text Processing (continued)

Type Casting



```
>>> type('make puppies great again! <a>()</a>)
<class 'str'>
>>> type(1)
<class 'int'>
>>> type(9 / 4)
<class 'float'>
>>> str(9)
191
>>> type(str(9)) # verify the type
```

<class 'str'>

Taketh

```
>>> str(9) / 4
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: unsupported operand type(s) for /: 'str' and 'int'
>>> 4 + str(9)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: unsupported operand type(s) for +: 'int' and 'str'
>>> str(9) - 4
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: unsupported operand type(s) for -: 'str' and 'int'
```

Giveth

```
>>> str(9) * 9
  '999999999'
  >>> 'I WILL NOT INSTIGATE REVOLUTION' * 18
          L WILL NOT INSTRUME REVOLUTION.
WELLTON.
          I WILL NOT IN STIGATE REVOLUTION
          I WILL NOT INSTRUMTE REVOLUTION.
EUTION.
          I WILL NOT INSTIGATE REVOLUT
DELITION.
          I WILL ANT INSTIGATE REVOL
 CULTON
 LUTTON
          I WILL NOT INSTRUMTED
VOLUTION
          I WILL NOT I USTIGA
LUTTON
```

First Reusability - Variables and Functions

```
>>> str((16 + 12345) % 24).zfill(2) + ':00' # 12345 hours from 16:00 is '01:00'

>>> str((1 + 54321) % 24).zfill(2) + ':00' # 12345 hours from 01:00 is '10:00'

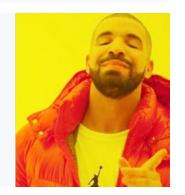
>>> str((10 + 1234) % 24).zfill(2) + ':00' # 1234 hours from 10:00 is '20:00'

...
```

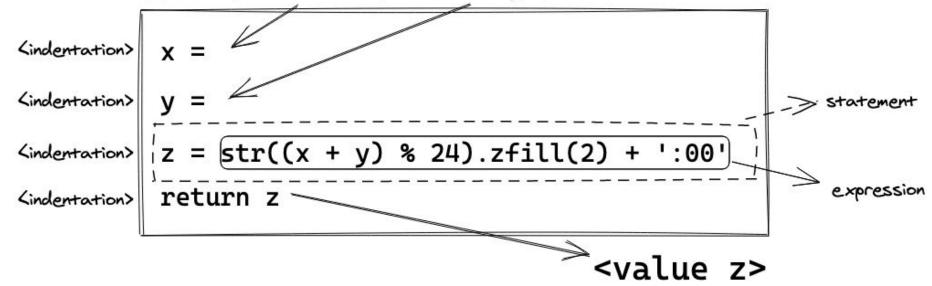


```
>>> str((x + y) % 24).zfill(2) + ':00' # y hours from x is
Traceback (most recent call last):
 File "<stdin>", line 1, in <module>
NameError: name 'x' is not defined
>>> x = 14 # assign 14 to variable x (to represent hour 14:00)
>>> y = 111222 # assign 111222 to variable y
>>> str((x + y) % 24).zfill(2) + ':00' # 111222 hours from 14:00 is
'20:00'
>>> x = 12 # assign 12 to variable x
>>> str((x + y) % 24).zfill(2) + ':00' # 111222 hours from 12:00 is
'18:00'
>>> y = 222111 # assign 222111 to variable y
>>> str((x + y) % 24).zfill(2) + ':00' # 222111 hours from 12:00 is
'03:00'
```





def hours_from(<value x>, <value y>):





Questions?