## Functions and Expressions

Mentoring 1: June 21, 2017

#### 1 FUNctions

1.1 What would Python display?

```
>>> from operator import add, mul
>>> def f(x, y):
...     print('h', y)
...     return add(add(x, y), 1)
>>> def g(x, y):
...     print('u', x)
...     return mul(mul(x, y), 2)
>>> f(2, g(2, f(500, 2)))
```

## 2 Types

2.1 What would Python display for each expression?

```
(a) 3 + 4
```

$$(b)$$
 '3' + 4

$$(c)$$
 '3 + 4'

2.2 Why does Python behave this way?

#### 3 Moar FUNctions

```
3.1 >>> print(add(6, 1), print(7))
```

```
3.2 >>> print(print("Welcome to"), print("CS 61A"))
```

#### User-defined Functions

# 4 Beep Boop Bam

4.1 What would Python display?

```
>>> x = 6
>>> def beep(x):
...     print(x)

>>> def boop(x):
...     y = x
...     x = 7
...     print(x)

>>> y = beep(6)

>>> boop(28)

>>> y + beep(8)
```