

# Python Review

# Boolean expressions

```
print(2 > 1)
```

```
print(5 % 2 == 0)
```

```
print(not 5 % 2 == 0)
```

```
print(2 > 1 or 2 < 1)
```

```
print(True or False)
```

```
print(5 % 2 == 0 or 5 % 3 == 0)
```

```
print(2 > 1 and 2 < 1)
```

```
print(True and False)
```

```
print(False and False)
```

# Functions vs. Methods

```
message = "Hello World!"  
  
print(message)  
  
print(type(message))  
  
print(message.lower().upper().title())
```

# Defining functions with arguments

```
def main():  
    n1 = 1  
    n2 = 2  
    n3 = 3  
  
    print(function(n1, n2, n3))  
    print(function(1, 2, 3))  
    print(function(a = n1, b = n2, c = n3))  
    print(function(b = n2, a = n1, c = n3))  
  
def function(a, b, c):  
    return b  
  
main()
```

```
def function1():  
    return x  
  
def function2(x):  
    return x  
  
def function3():  
    x = 1  
    return x  
  
def function4(x=0):  
    return x  
  
function1()  
function1(1)  
function2()  
function2(1)  
function3()  
function3(1)  
function4()  
function4(1)
```

## Where should we call `main()` ?

```
# 1
def main():
    hello()

# 2
def hello():
    print("Hello World!")

# 3
```

## return to break out of a function

```
def main():  
    print("Hello World!")  
    return # equivalent to "return None"  
    print("Goodbye World!")  
  
main()  
  
print(main())
```

# Indentation matters

```
def function():  
    if condition1:  
        do_something()  
  
        if condition2:  
            do_something_else()  
  
        else:  
            for item in lst:  
                do_something()  
  
    return something
```



# Quiz prep


1. Review the slides and code examples (No DataCamp)
2. Mock exam on Ed
3. Post questions on Ed

# Quiz format

- **Part1: 30 minutes, 20 questions \* 3 points each = 60 points**
- **Part2: 60 minutes, 8 questions \* 5 points each = 40 points**
  - You will have access to the correct versions of functions from previous questions.
- **Click "Submit" for each question**


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### Quiz1 - Part1

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### Quiz1 - Part1

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