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

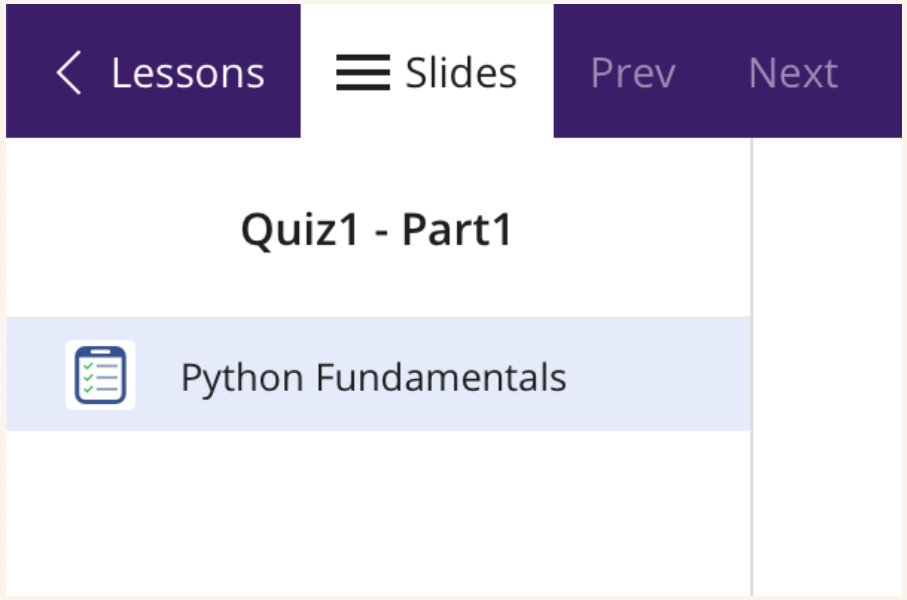
```
def function():
    if condition1:
        do_something()

        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

- **Closed book**
- **Part1: 30 minutes, 20 questions * 3 points each = 60 points**
- **Part2: 60 minutes, 8 questions * 5 points each = 40 points**
    - 8 functions to complete
    - Later functions build on earlier functions
    - You will be provided with the correct versions of earlier functions in subsequent questions
- **Click "Submit" for each question**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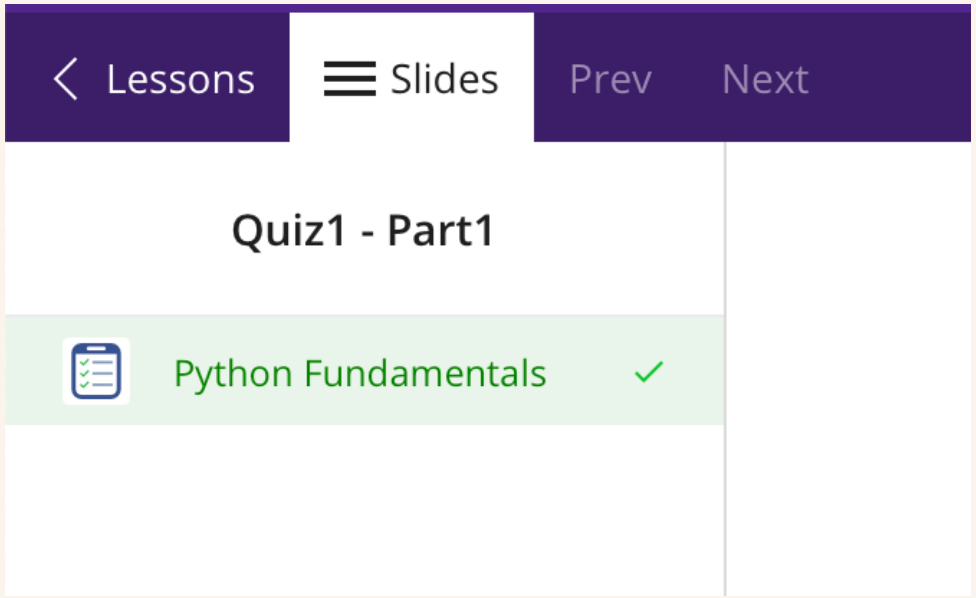
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