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## Check For Understanding: Variable Scope

### Check for Understanding

In the questions below, you will get some practice working with variable scope. It is important to understand variable scope, as this often can lead to confusion when writing code that solves complex problems.

Try to answer each of these quiz questions, just by examining the code, without executing it. But there is a coding space earlier in the lesson where you can test the code if you'd like.

#### Quiz Question

Use the code below to determine what will print to the console.

```
str1 = 'Functions are important programming concepts.'

def print_fn():
    str1 = 'Variable scope is an important concept.'
    print(str1)

print_fn()
```

What will happen when we run this code?

- ☒ It will print 'Variable scope is an important concept.' ✓
- ☐ It will print 'Functions are important programming concepts.'
- ☐ It will give a ValueError.

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#### Quiz Question

Now let's say we tweak the code a bit and comment out `str1 = 'Variable scope is an important concept.'`

```
str1 = 'Functions are important programming concepts.'

def print_fn():
    #str1 = 'Variable scope is an important concept.'
    print(str1)

print_fn()
```

What will happen when we run this code?

- ☒ It will print 'Functions are important programming concepts.' ✓

- ☐ It will print 'Variable scope is an important concept'.
- ☐ It will not print anything.

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## Quiz Question

We made another tweak to the code.

```
def print_fn():  
    str1 = 'Variable scope is an important concept.'  
    print(str1)
```

```
print_fn(str1)``
```

What do you think will happen when we run this code?

- ☒ It gives a NameError: 'name 'str1' is not defined' ✓
- ☐ It will print 'Variable scope is an important concept.'
- ☐ It will print nothing.

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## Quiz Question

We made a final tweak to the code.

```
str1 = 'Functions are important programming concepts.'
```

```
def print_fn():  
    print(str1)
```

```
print_fn(str1)``
```

Now what do you think will happen?

- ☒ It gives a TypeError: 'print\_fn() takes 0 positional arguments but 1 was given' ✓
- ☐ It will print 'Functions are important programming concepts'
- ☐ It will not print anything.

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