Exposure CS 2021 for CS1

Chapter 9 Output Slides

For Students

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Output Programs

These slides will present a variety of small programs. Most of the programs deal with calling subroutines (procedures and functions) and passing arguments to parameters.

Our concern will be with the output of each program, and more importantly, developing a way to determine program output correctly for programs that involve one or more user-created subroutines.

You can expect that on quizzes and/or tests only a program segment or a subroutine is shown.

Teacher/Student Versions, Tablet PCs, and Inking

The *"For Teachers"* version of this presentation has 2 slides for each program.

The first slide only shows the program.
The second shows the program, worked out solution, and output.

The *"For Students"* version only has 1 slide for each program with no provided solution or output. Students are expected to work out the solutions either on paper, or ideally they can "ink" directly on their laptops.

```
1  # Output0901
2
3  def dallas(x):
4      print(x)
5
6  # MAIN
7  print()
8  dallas(50)
9
10
11
```

```
1  # Output0902
2
3  def london(x):
4      print(x)
5
6  # MAIN
7  print()
8  london(10+20)
9
10
11
```

```
1  # Output0903
2
3  def paris(x):
4      print(x)
5
6  # MAIN
7  print()
8  w = 100
9  paris(w)
10
11
```

```
1  # Output0904
2
3  def vienna(x):
4      print(x)
5
6  # MAIN
7  print()
8  w = 100
9  v = 25
10 vienna(w-v)
11
```

```
1  # Output0905
2
3  def houston(x):
4      print(x)
5
6  # MAIN
7  print()
8  w = 100
9  print(w)
10 houston(w)
11 print(w)
12
```

```
1  # Output0906
2
3  def vegas(x):
4      x = 50
5      print(x)
6
7  # MAIN
8  print()
9  w = 100
10 print(w)
11 vegas(w)
12 print(w)
13
```

```
1  # Output0907
2
3  def qwerty(x):
4      x += 1
5      return x
6
7  # MAIN
8  print()
9  print(qwerty(100))
10
11
```

```python
# Output0908

def qwerty(x):
    x -= 1
    return x

# MAIN
print()
print(qwerty(100))

```

```
1  # Output0909
2
3  def qwerty(x):
4      x *= 5
5      return x
6
7  # MAIN
8  print()
9  print(qwerty(100))
10
11
```

```
1  # Output0910
2
3  def qwerty(x):
4      x += 1
5      return x
6
7  # MAIN
8  print()
9  print(qwerty(qwerty(100)))
10
11
```

```python
# Output0911

def qwerty1(x):
    x += 1
    return x

def qwerty2(x):
    x -= 1
    return x

# MAIN
print()
print(qwerty1(qwerty2(100)))
print(qwerty2(qwerty1(100)))

```

```python
# Output0912

def qwerty(x,y):
    return x + y

# MAIN
print()
print(qwerty(100,200))
print(qwerty(200,100))

```

```
1  # Output0913
2
3  def qwerty(x,y):
4      return x - y
5
6  # MAIN
7  print()
8  print(qwerty(100,200))
9  print(qwerty(200,100))
10
11
```

```
1  # Output0914
2
3  def fullName(n1,n2):
4      space = ' '
5      n3 = n1 + space + n2
6      return n3
7
8  # MAIN
9  print()
10 firstName = "John"
11 lastName = "Smith"
12 print(fullName(firstName,lastName))
13
```

```
1  # Output0915
2
3  def fullName(n1,n2):
4      n3 = n2 + ", " + n1
5      return n3
6
7  # MAIN
8  print()
9  firstName = "John"
10 lastName = "Smith"
11 print(fullName(firstName,lastName))
12
```

```
1  # Output0916
2
3  def fullName(n1,n2):
4      return n1 + ' ' + n2
5
6  # MAIN
7  print()
8  firstName = "John"
9  lastName = "Smith"
10 qwerty1 = fullName(firstName,lastName)
11 qwerty2 = fullName(lastName,firstName)
12 print(fullName(qwerty1,qwerty2))
13
```

```
1  # Output0917
2
3  def fullName(n1,n2):
4      return n1 + ' ' + n2
5
6  # MAIN
7  print()
8  firstName = 8
9  lastName = 11
10 print(fullName(firstName,lastName))
11
```

```
1  # Output0918
2
3  def qwerty(x,y):
4      return x * y
5
6  # MAIN
7  print()
8  print(qwerty("John","Smith"))
9
10
11
```

```
1  # Output0919
2
3  # MAIN
4  print()
5  print(qwerty(100,200))
6  print(qwerty(200,100))
7
8
9
10
11
```

```python
# Boohiss.py

def qwerty(x,y):
    return x + y

```

```python
# Output0920

from Boohiss import *

# MAIN
print()
print(qwerty(100,200))
print(qwerty(200,100))

```