Feedback — Final Exam

Thank you. Your submission for this exam was received.

You submitted this exam on **Fri 7 Nov 2014 12:38 PM WET**. You got a score of **20.00** out of **20.00**.

This is the final exam. It is not due until the end of the class. But you should understand all this material by the end of week 10. You can re-take this exam up to 100 times and your highest score will be retained. So you can take this exam to help guide your study and check your knowledge retention. It is OK to use Python in an another window to check your answers during this exam.

Question 1

What will the following Python program print out:

```
def fred():
    print "Zap"

def jane():
    print "ABC"

fred()
jane()
fred()
```

Your Answer		Score	Explanation
○ 42			
○ Zap ABC fred jane fred			
⊙ Zap ABC Zap	✔	1.00	

○ ZZZ
fred

Total	1.00 / 1.00	

Question 2

What would the following Python code sequence print?

```
str = "hello there bob"
print str[0]
```

Your Answer		Score	Explanation
○ It would fail with an index error			
○ e			
○ hello			
◉ h	✔	1.00	
Total		1.00 / 1.00	

Question 3

What part of a computer is actually doing the addition and subtraction in the following statement:

```
x = 1 + 2 - 3 * 4 / 5 + 6
```

Your Answer		Score	Explanation
○ Disk Drive			
○ Network Controller			
○ Main Memory			
◉ Central Processing Unit	✔	1.00	
Total		1.00 / 1.00	

Question 4

Which of the following lines will never print out regardless of the value for x?

```
if x < 2 :
    print "Below 2"
elif x < 0 :
    print "Negative"
else :
    print "Something else"
```

Your Answer		Score	Explanation
◯ Something else			
⦿ Negative	✔	1.00	
◯ Below 2			
◯ All three lines will print all the time			
Total		1.00 / 1.00	

Question 5

What will the following Python program print out?

```
print "hello world"
```

Your Answer		Score	Explanation
⦿ hello world	✔	1.00	
◯ hello			
◯ world			
◯ 42			
Total		1.00 / 1.00	

Question 6

What type of data is produced when you call the **range()** function?

```
x = range(5)
```

Your Answer		Score	Explanation
◯ Two floating point values			
◉ A list of integers	✔	1.00	
◯ A list of characters			
◯ A string			
◯ A list of words			
Total		1.00 / 1.00	

Question 7

What would the value of the following expression be:

```
abc = 1 + 2 - 3 * 4 + 5 - 6 / 3
```

Your Answer		Score	Explanation
◯ 36			
◯ Zero			
◉ -6	✔	1.00	
◯ 42			
Total		1.00 / 1.00	

Question 8

You type in the following Python code and it tells you that you have a syntax error - what is

wrong?

```
x = 12
if x < 5:
print "smaller"
else:
    print "bigger"

print "all done"
```

Your Answer	Score	Explanation
⦿ print "smaller" needs to be indented	✔ 1.00	
◯ There should not be a colon on the if statement		
◯ There should not be a blank line after print "bigger"		
◯ There should be a semicolon on the "x		
Total	1.00 / 1.00	

Question 9

What will the following Python program print out:

```
def fred():
    print "Zap"

def jane():
    print "ABC"

jane()
fred()
jane()
```

Your Answer	Score	Explanation
◯ Zap ABC jane fred jane		
◯ Zap Zap		

Zap

○ Zap
ABC
Zap

◉ ABC   ✔   1.00
Zap
ABC

Total   1.00 / 1.00

Question 10

Where in the computer is a variable such as "x" stored?

```
x = 123
```

Your Answer		Score	Explanation
○ The Cloud			
○ Input Devices			
◉ Main Memory	✔	1.00	
○ Output Devices			

Total   1.00 / 1.00

Question 11

The following Python code:

```
x = "Hello"
print x
print type(x)
```

Produces the following output:

```
Hello
<type 'str'>
```

What is the purpose of type() - what is the output of type telling us?

Your Answer	Score	Explanation
⊙ It is telling us that the data stored in the variable x is a string	✔ 1.00	
◯ It indicates that the variable x contains a "strong" value which cannot be overridden.		
◯ It is telling us the primary key that will be used to look up the contents of x in a database.		
◯ It insures that the contents of the variable x will be printed in a fixed font		
Total	1.00 / 1.00	

Question 12

What would this code print out?

```
lst = []
lst.append(4)
lst.append(10)
lst.append(21)
lst.append(6)
print lst[2]
```

Your Answer	Score	Explanation
⊙ 21	✔ 1.00	
◯ 6		
◯ none of the above		
◯ 2		
Total	1.00 / 1.00	

Question 13

For this Python program snippet:

```
total = 0
count = 0
for abc in range(10):
    total = total + abc
    count = count + 1
ave = total / count
print ave
```

Which of the variables is the "iteration" variable?

Your Answer	Score	Explanation
○ count		
○ total		
○ ave		
⦿ abc	✔	1.00
Total	1.00 / 1.00	

Question 14

If you want your program to recover from errors that would otherwise cause a trace back and your program to stop, what language element of Python would you use?

Your Answer	Score	Explanation
⦿ try / except	✔	1.00
○ try / retry		
○ start / rescue		
○ when / error		
Total	1.00 / 1.00	

Question 15

What would the following Python code print out?

```
sta = "abc"
stb = "123"
stc = sta + stb
print stc
```

Your Answer		Score	Explanation
◉ abc123	✔	1.00	
◯ abc+123			
◯ ab3			
◯ 124			
Total		1.00 / 1.00	

Question 16

What is the purpose of the raw_input() function in Python?

Your Answer	Score	Explanation
◯ It allows Python to read non-text files such as JPEG images		
◯ It allows the contents of a file to be read in a single call instead of a loop		
◯ It suppresses character set conversion when reading data from a socket		
◉ It pauses the program and reads a line of text from the user ✔	1.00	
Total	1.00 / 1.00	

Question 17

What would the following Python code print out?

```
fline = "blah blah"
```

```
if len(fline) > 1 :
    print "More than one"
    if fline[0] == "h" :
        print "Has an h"
print "All done"
```

Your Answer		Score	Explanation
⦿ More than one All done	✔	1.00	
◯ Nothing will print			
◯ Has an h All done			
◯ More than one Has an h All done			
Total		1.00 / 1.00	

Question 18

What is the value of the following expression:

```
abc = 1 - 2 + 3 * 4 - 5 - 6 / 3
```

Your Answer		Score	Explanation
⦿ 4	✔	1.00	
◯ 42			
◯ 163			
◯ 0			
Total		1.00 / 1.00	

Question 19

This Python program is supposed to compute the average of a list of numbers but the output is always wrong. Which line is in error?

```
total = 0
count = 0
for abc in [3, 41, 12, 9, 74, 15] :
    total = total + abc
    count = 1
ave = total / count
print ave
```

Your Answer	Score	Explanation
○ count = 0		
○ print ave		
⦿ count = 1	✔ 1.00	
○ total = total + abc		
Total	1.00 / 1.00	

Question 20

For the following Python program, what will it print out?

```
x = -1
for value in [3, 41, 12, 9, 74, 15] :
    if value < x :
        x = value
print x
```

Your Answer	Score	Explanation
○ 9		
○ 21		
⦿ -1	✔ 1.00	
○ 74		
Total	1.00 / 1.00	