Feedback — Midterm Exam

Help

You submitted this quiz on **Thu 17 Apr 2014 10:25 AM MST**. You got a score of **20.00** out of **20.00**.

This is the midterm exam. It is not due until the end of the class. But you should understand all this material by the end of week 6. 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 you 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 would the following Python code sequence print out?

```
str = "hello there bob"
print str[4]
```

Your Answer		Score	Explanation
⊙ o	✔	1.00	
○ hello			
○ l			
○ e			
○ You would get an out-of-range error and the program would fail			
Total		1.00 / 1.00	

Question 2

What would the value of the following expression be:

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

Your Answer	Score	Explanation
○42		
○36		
○0.9675		
⦿-6	✔	1.00
○Zero		
Total	1.00 / 1.00	

Question 3

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
○There should not be a blank line after print "bigger"		
○There should be a semicolon on the "x-5" statement		
○print "bigger" needs to start in column 1		
⦿print "smaller" needs to be indented	✔	1.00
Total	1.00 / 1.00	

Question 4

What will the following Python program print out:

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

def jane():
    print "ABC"

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

Your Answer	Score	Explanation
○ Zap ABC Zap		
⦿ ABC Zap ABC	✔ 1.00	
○ ABC Zap jane		
○ Zap Zap Zap		
Total	1.00 / 1.00	

Question 5

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

```
x = 123
```

Your Answer		Score	Explanation
○ Input Devices			
● Main Memory	✔	1.00	
○ The Cloud			
○ Secondary Memory such as Flash or Disk			
Total		1.00 / 1.00	

Question 6

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
○ 12			
● 74	✔	1.00	
○ 15			
○ 9			
Total		1.00 / 1.00	

Question 7

In 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 indicates that the variable x contains a "strong" value which cannot be overridden.		
◉ It is telling us that the data stored in the variable x is a string	✔ 1.00	
○ It is telling us the primary key that will be used to look up the contents of x in a database.		
○ It is telling us that the variable x is ready to be reclaimed as part of a "garbage collection" operation to free up memory.		
Total	1.00 / 1.00	

Question 8

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
○ total			
○ ave			
○ count			
⦿ abc	✔	1.00	
Total		1.00 / 1.00	

Question 9

What will the following Python program print out? (This is a bit tricky so look carefully).

```
def hello():
    print "Hello"
    print "There"

x = 10
x = x + 1
```

Your Answer		Score	Explanation
○ Hello There			
○ Hello There 10 11			
○ Hello There			
⦿ Nothing at all	✔	1.00	
Total		1.00 / 1.00	

Question 10

You develop the following program in Python:

```python
f = int(raw_input("Enter:"))
c = ( f - 32 ) * ( 5 / 9 )
print "Celsius",c
```

And when you run it three times you get the following output:

```
Enter:212
Celsius 0

Enter:72
Celsius 0

Enter:15
Celsius 0
```

What part of the program is causing the output to always be zero?

Your Answer	Score	Explanation
○ (f - 32)		
○ Using double quotes for all the strings		
⦿ (5 / 9)	✔ 1.00	
○ Using single character variables		
Total	1.00 / 1.00	

Question 11

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

```python
x = 0
```

```
for value in [3, 41, 12, 9, 74, 15] :
    if value < 10 :
        x = x + value
print x
```

Your Answer		Score	Explanation
◯41			
◉12	✔	1.00	
◯3			
◯74			
Total		1.00 / 1.00	

Question 12

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
◯Has an h All done		
◯blah blah --- Traceback ---		
◯More than one Has an h All done		
◯All done		

○ Nothing will print

◉ More than one   ✔   1.00
All done

Total   1.00 / 1.00

Question 13

What is the value of the following expression:

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

Your Answer	Score	Explanation
◉ 4 ✔	1.00	
○ 42		
○ 0		
○ 0.7365		

Total   1.00 / 1.00

Question 14

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
◯ total = 0		
◉ count = 1	✔	1.00
◯ count = 0		
◯ total = total + abc		
Total	1.00 / 1.00	

Question 15

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
◉ -1	✔	1.00
◯ 41		
◯ 74		
◯ 12		
Total	1.00 / 1.00	

Question 16

What will the following Python program print out:

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

def jane():
    print "ABC"

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

Your Answer	Score	Explanation
◯ Zap ABC fred jane fred		
◯ fred jane fred		
◉ Zap ABC Zap	✔ 1.00	
◯ ZZZ fred		
Total	1.00 / 1.00	

Question 17

What would the following Python code sequence print?

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

Your Answer	Score	Explanation
◯ hello		

⦿ h	✔	1.00
◯ e		
◯ hello there bob		
Total		1.00 / 1.00

Question 18

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
◯ Cloud		
⦿ Central Processing Unit	✔ 1.00	
◯ Output Devices		
◯ Input Devices		
Total	1.00 / 1.00	

Question 19

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		
⚪ All three lines will print all the time		
🔘 Negative	✔ 1.00	
⚪ Below 2		
Total	1.00 / 1.00	

Question 20

What will the following Python program print out?

```
print "hello world"
```

Your Answer	Score	Explanation
🔘 hello world	✔ 1.00	
⚪ world		
⚪ hello		
⚪ 42		
Total	1.00 / 1.00	