

# Final Exam

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The **due date** for this exam is **Tue 25 Aug 2015 8:59 PM PDT**.

This is the final exam. You can re-take this exam up to 10 times and your highest score will be retained. It is OK to use Python in an another window to check your answers during this exam.

☒ In accordance with the Coursera Honor Code, I (Rodrigo Dias Martins) certify that the answers here are my own work.

Thank you!

## Question 1

Which of the following is a bad variable name for Python?

- ☐ Four
- ☐ four
- ☒ for
- ☐ four\_44

## Question 2

Assume that `lst` is a list of integers, what does the following code accomplish?

```
abc = None
for val in lst:
    if abc == None or val > abc:
        abc = val

print abc
```

- ☐ Print out the smallest number in `lst`

- ☒ Print out the largest number in lst
- ☐ Print the count of the numbers in lst
- ☐ Print the average of the numbers in list
- ☐ Add up the even numbers in lst

## 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
```

- ☐ Output Devices
- ☒ Central Processing Unit
- ☐ Network Controller
- ☐ USB Stick

## Question 4

In the following example, an error occurs in "line3" that normally causes a traceback. What is the sequence of lines executed in this program:

```
line1
try:
    line2
    line3
    line4
except:
    line5
line6
```

- ☒ line1 line2 line3 line5 line6
- ☐ line1 line2 line3 line6
- ☐ line1 line6

☐ line1 line2 line3 line4 line2 line6

## Question 5

What will the following code print out?

```
x = 12
if x <= 10:
    if x > 4:
        print "One"
    else:
        print "Two"
else:
    if x >= 11:
        print "Three"
    else:
        print "Four"
```

- ☐ One
- ☐ Four
- ☒ Three
- ☐ Two

## Question 6

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

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

- ☐ Two floating point values
- ☒ A list of integers
- ☐ A list of words
- ☐ A string
- ☐ A list of characters

## Question 7

What is the string method used to break a string into a list of words?

Before: 'With three words'

After: ['With', 'three', 'words']

- ☒ split()
- ☐ format()
- ☐ str\_split()
- ☐ explode()

## Question 8

What is the primary use of the Python dictionary?

- ☐ To insure that all Python reserved words are properly spelled
- ☐ To store items in order (like a can of Pringles potato chips)
- ☒ To store key / value pairs
- ☐ To look up all of the methods which are available on a Python object

## Question 9

Which of the following lines will never print out?

```
if x < 2 :  
    print "Below 2"  
elif x < 20 :  
    print "Below 20"  
elif x < 10 :  
    print "Below 10"  
else :
```

```
print "Something else"
```

- ☐ Below 20
- ☐ Below 2
- ☒ Below 10
- ☐ All four print statements will come out for all values of x

## Question 10

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

```
x = 123
```

- ☐ Central Processing Unit
- ☐ Secondary Memory such as Flash or Disk
- ☐ Data Warehouse
- ☒ Main Memory

## 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?

- ☒ It is telling us that the data stored in the variable x is a string

- ☐ It insures that the contents of the variable x will be printed in a fixed font
- ☐ 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.

## Question 12

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
```

- ☐ 15
- ☐ 3
- ☒ 74
- ☐ -1

## 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?

- ☐ count
- ☐ ave

- ☒ abc
- ☐ total

## Question 14

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
```

- ☒ Nothing at all
- ☐ Hello  
There  
10  
11
- ☐ Hello There
- ☐ Hello  
There

## Question 15

You develop the following program in 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?

- ☐ ( f - 32 )
- ☒ ( 5 / 9 )
- ☐ Using double quotes for all the strings
- ☐ Use of the int() function

## Question 16

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

```
x = 0
for value in [3, 41, 12, 9, 74, 15] :
    if value < 10 :
        x = x + value
print x
```

- ☐ 15
- ☒ 12
- ☐ 41
- ☐ 9

## 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"
```

- ☒ More than one  
All done
- ☐ Nothing will print
- ☐ More than one  
Has an h  
All done
- ☐ Has an h  
All done

## Question 18

If you ran the following Python code, what would be the output:

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

hello()
hello()
```

- ☐ Hello  
Hello  
Fun  
Fun
- ☒ Hello  
Fun  
Hello  
Fun
- ☐ Nothing would come out because the functions are never executed

- ☐ def
- ☐ Hello
- ☐ Fun
- ☐ hello
- ☐ hello

## 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
```

- ☐ total = total + abc
- ☐ print ave
- ☐ count = 0
- ☒ count = 1

## Question 20

Which of the following built-in Python functions converts from an integer to a float?

- ☐ atof()
- ☐ convert\_int\_to\_float()
- ☐ str()
- ☒ float()

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