Python Review Exercises

For all of the questions below, try to answer the questions first on paper *only*. Then, to check your answers, put the code into a program & run it.

NOTE: More than one answer may be correct. Select *all* that are correct! Also, do not pay attention to logic errors. This is purely about syntax.

1. Which input statements are correct?

a = input()

a = input("Enter a number: ")

a = input(Enter your name)

input('Enter your phone number: ')

2. Which print statements are correct? If correct, show the output.

print("9" + "9") OUTPUT: 99

print int("nine")

print(str(9) + "nine") OUTPUT: 9nine

print(9+9) OUTPUT: 18

3. Which are correct arithmetical operations?

a = 1 \* 2

2 = 1 + 1

5 + 6 = y

seven = 3 \* 4

4. Which are correct variable names?

result

my.result

print

result77

5. Which are correct type conversions?

int(7.0 + 0.1)

str(1.2 \* 3.4)

float("77" + ".0")

str( 9 / 0)

6. Which operations result in 8?

65 // 8

17 % 9

2 \*\* 4

64 \*\* 0.5

7. Which lines are commented?

"""This is a comment"""

# This is a comment

// This is a comment

''' This is a coment'''

8. Find the matching pairs of expressions and values.

|  |  |  |
| --- | --- | --- |
| 1023 |  | int |
| [2, 4, 8, 16] | list |
| True | Boolean |
| 17.54 | float |
| "my fat cat" | string |

Using the string, s = "my fat cat\n" write the result of each operation.

9. s[6] OUTPUT: ‘ ‘

10. s.upper() OUTPUT: MY FAT CAT\n

11. s.find("fat") OUTPUT: 3

12. len(s) OUTPUT: 11

13. Which of these while commands are correct?

while a = 1:

while a + 7:

while len(c) > 10:

while b == 1

14. Which of these statements are correct?

The 'while' loop is also called a conditional loop.

The expression after "while" may contain function calls.

It is possible to write endless "while" loops.

The colon at the end of the "while" declaration may be omitted.

The code block after "while"is always executed at least once.

15. Which of the "if" statements are syntactically correct?

if (a and b):

if a but not b < 3:

if a\*\*2 >= 49:

if a != 3:

16. How many times will each of the following loops be executed?

a = 5

while a >= 0:

a = a – 1 Runs 6 Times

a = 2

while a < 19:

a += 4 RUNS 5 times

a = 2

while abs(a) < 7: ###abs( ) gives the absolute value of whatever is in the ( )

a = -a \* 2 RUNS 2 times

a = 7

while a != 0:

a -= 2 INFINITE Loop

17. Which of the following is the correct **if** clause to determine whether **y** is in the range 10 through 50?

a. if 10 < y or y > 50

b. if 10 > y and y < 50

c. if y > 10 and y < 50 #CORRECT

d. if y > 10 or y < 50

18. When will the following loop terminate?

while keep\_on\_going != 999 :

|  |  |
| --- | --- |
| a. | When keep\_on\_going refers to a value less than 999 |
| b. | When keep\_on\_going refers to a value greater than 999 |
| c. | When keep\_on\_going refers to a value equal to 999 #Terminates on this condition |
| d. | When keep\_on\_going refers to a value not equal to 999 |

19. What type of error produces incorrect results but does not prevent the program from running?

|  |  |
| --- | --- |
| a. | syntax |
| b. | logic |
| **c.** | **Grammatical #** |
| d. | human |

20. After the execution of the following statement, the variable **price** will reference the value \_\_\_\_\_. price = int(68.549)

|  |  |
| --- | --- |
| **a.** | **68** |
| b. | 69 |
| c. | 68.55 |
| d. | 68.54 |