Python Quiz

To set the size of a tkinter window, which function do we use?
size
window_size
geometry
set_size
Question 2
In a script, to start the tkinter loop, we must call which method?
start
start_loop
mainloop

Question 3
Which of the following are geometry managements in Tkinter?
Grid
Absolute
Pack
Place
Question 4

loop

We can get the location of a function by using its name without parenthesis.

irue
False
Question 5
GUI stands for
Graphics, Usability, Interactions
Great Unified Information
Graphical User Interface
Graph Under Influence
Question 6
(Select all that apply) Which of the following are widgets that can take in text from a user?

Entry	
Text	
Check Buttons	
Label	
Frame	
Button	
Question 7	
Check button widgets	
allow for users to create a list of choices to be made	
allow for users to select options from a drop down menu	
allow for multiple choice selections out of set possible selections to be made	
allow for only one choice to be selected out of a set of possible choices to be made	

Question 8 Each individual Frame can have its own Geometry manager True False Question 9 If a button calls a function that requires arguments, we could use what to call the function? just call the named function. It will know which arguments we would like to pass to it. simply call the named function passing the argument to it. use the attribute function_vars and pass a tuple of the arguments needed for the function.	
False Question 9 If a button calls a function that requires arguments, we could use what to call the function? just call the named function. It will know which arguments we would like to pass to it. simply call the named function passing the argument to it. use the attribute function_vars and pass a tuple of the arguments needed for the	Question 8
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use the attribute function_vars and pass a tuple of the arguments needed for the	just call the named function. It will know which arguments we would like to pass to it.
	simply call the named function passing the argument to it.

Lambda function that calls the function with appropriate arguments.

Question 10
The .pyw extension for a script file can be combined with what command to run a GUI application from the command line without invoking the console?
python-windowed
pythonwindowed
pythonw
pywindow
Question 11
Which attribute do you set to invoke an action when a button is pressed?
pressed

command
action
callback
Question 12
What class is used to create a main window using tkinter? Tk
Question 13
(Select all that apply)
Using the grid geometry manager we use _row and column to place widgets in the frame.

row		
x		
у		
No answer text provided.		
column		
No answer text provided.		
Question 14		
(Select all that apply)		
Using the place geometry manager we use _ widgets in the frame.	and	to place
row		
column		

x
y
Question 15
The Pack geometry manager places widgets in a frame using values that represent the row and column for placement.
True
False
Question 16
A label

is used to receive a single line of text.

is used to receive multiple lines of text.
is used to display multiple lines of text.
is used to display a single line of text.
Question 17
A button
is used to send a specific option to the business logic of the application.
is used to give the user options to select from.
is used to display a single line of text.
is used to perform some action when pressed.
Question 18

Combo boxes
only displays multiline text.
has a radial button to allow for multiple default selections.
has a check box to indicate a selection.
allows for dropdown box for a selection of items.
Question 19
(Select all that apply)
Which of the following are valid Variable Objects
IntVar
StringVar
DoubleVar

ListVar
DictionaryVar
BooleanVar
Question 20
To set an event on a widget, which attribute do we set?
event
set_event
Bind_event
bind
Question 1

What Python module support comma separated variables?
xml
CSV
json
flatfile
Question 2
What built-in function can be used to receive the next item from a CSV iterator?
next()
retrieve()
iter_to()

Question 3
When reading from a CSV file, the file must have the .csv extension.
True
False
Question 4
What result is returned by the CSV Reader when it encounters a missing column?
Empty String
False
None
An error is thrown

next_row()

Question 5
To make a class JSON serializable we need to extend the jsonclass
JSONEncoder
Question 6
To make the JSON output of the dump call more human-readable we can pass the named argument indent an integer to space the items out.
True
False
Question 7
The second argument to the dump method of a json object is a

file object to write to string object which contains the file name to write to string object which contains the file name to read from file object to read from **Question 8** Which of the following will allow use to immediately write to a JSON file? fileout() dumps() dump() json_out() **Question 9**

Which function do we use to load a JSON file?
open()
read()
load()
loads()
Question 10
Which SQL keyword do we use to retrieve information from a database?
FIND
GRAB
PULL
SELECT

Question 11

How do we delete a table from an SQL database?

DROP database

DELETE database

DROP table

DELETE table

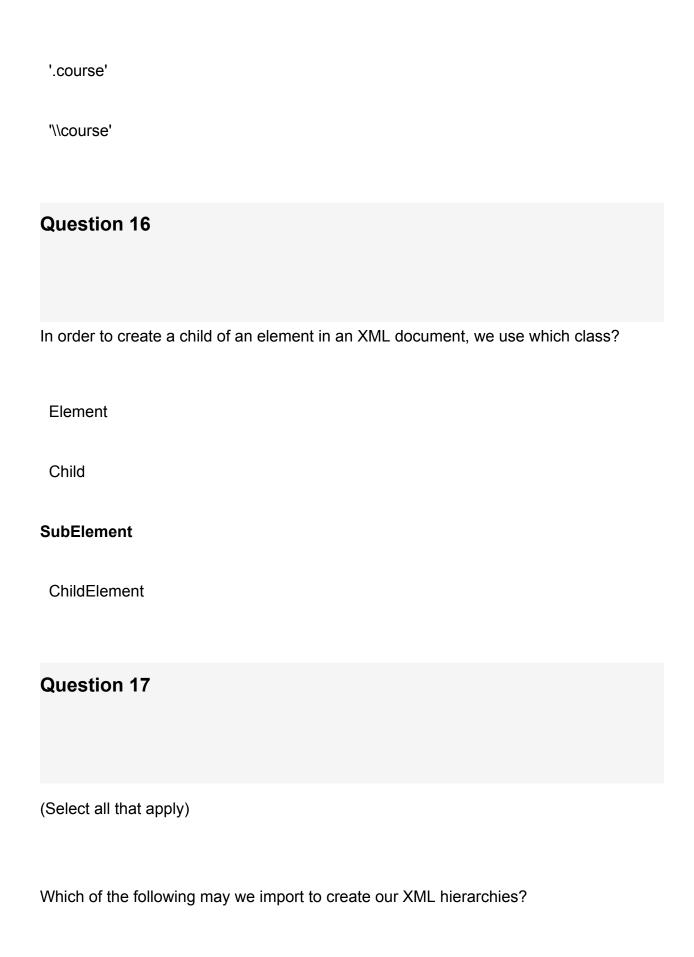
Question 12

Suppose we have the following table. Which of the following would display only the player names that have a score less than 100?

player_name	score
btcr	150
jls	125
tms	95
acs	175

nar	90
Table: scores	
SELECT score FR	ROM scores WHERE score < 100;
SELECT * FROM	scores WHERE score > 100;
SELECT player_n	ame FROM score
SELECT player_na	ame FROM scores WHERE score < 100;
Question 13	
What is the comma	and to make tables using SQL
CREATE	
SETUP	
MAKE	
DEFINE	

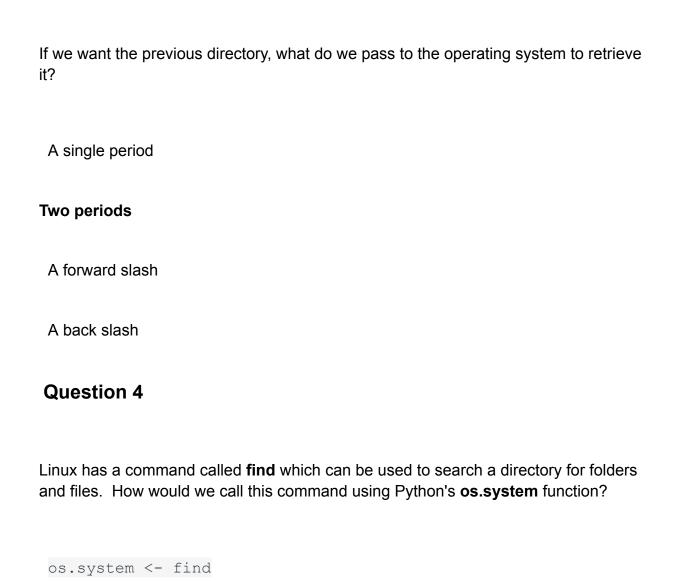
Question 14
The fetchall method for an sqlite cursor object returns
a list of tuples
a list of dictionaires
a list of lists
a single result
Question 15
Used inside the find or findall method, what string would we pass in to find tags named course?
'course'
'.//course'



XMLTag
SubElement
Comment
Element
Question 18
What is the vulnerability in XML that results in an exponential entity expansion taking up CPU time and gigs of memory?
Quadratic Blowup Entity Expansion
External Entity Expansion
Billion Laughs attack
Decompression Bomb
Question 19

In order to create the root element of an XML document, we use which class?
SubElement
Root
Element
RootElement
Question 20
Which of the following data persistence formats has potential security issues? JSON
SQL
CSV
XML
Question 1

The commands passed to the os.system function can be ran on any operating system.
True
False
Question 2
If we want the current directory, what symbol is passed to the operating system to retrieve it?
Two periods
A back slash
A forward slash
A single period
Question 3



os.system.find

```
os.system("find")
os.system(find)
Question 5
```

Checking if a filepath is a file, which function would I use?

```
os.path.isdir(basepath)

os.is_directory(basepath)

os.path.isfile(basepath)
```

Question 6Using sys.argv to accept command line arguments and given the following Python script call, what is the first item in the argv list?

python klog.py out.txt -t 30m
-t
30m
klog.py
out.txt
Question 7
What type of object is created when parse_args() method is called?
ArgumentParser
Parser
Namespace
System
Question 8

Give the pip command to install the package graphviz

pip install graphviz

Question 9

When using an ArgumentParser object, how do we add an argument with switch **-a** that accepts only integer types?

add_argument("-a", type=int)

```
add_args("a", int)
addArgument("-a", type=int)
add_argument("a", int)
```

Question 10

The os.walk function allows us to traverse down a directory visiting all subfolders and files.

True
False
Question 11
Which of the following is the correct sequence to match the pattern "ABCDEFGHIJKLMNOPQRSTUVWXYZ" using the glob module?
A, Z
[A-Z]
A->Z
[a-z]
Question 12

Which of the following are OS independent ways to join file paths with a correct separator? Assume **files** is a list of strings containing the path strings.

```
os.path.join(*files)

'\\'.join(files)

os.sep.join(files)
```

'/'.join(files)

Question 13Given the following code, which of the following are valid calls to the program?

```
from argparse import ArgumentParser

parser = ArgumentParser()

parser.add_argument('a')

parser.add_argument('-b', '--build')

#nargs says you must pass in this many arguments

#to this switch

parser.add argument('-c', nargs=2)
```

```
args = parser.parse args()
 python prog.py -b test
python prog.py test
 python prog.py -c 1 2 3
python prog.py -b test test
Question 14
Which of the following is a type of argument to our program that dictates how our
program behaves?
 long name
 short name
 absolute path
switch
```

Question 15
Which of the following is a switch that is a single letter preceded by a single hyphen
short name
argument
long name
relative path
Question 16
Suppose we are within the directory with path
/home/broge2/python/projects/quiz4
If we do// we are demonstrating

short name
long name
relative pathing
absolute pathing
Question 17
Which function of the time module will give us a date and time?
time
clock
ctime
gmtime
Question 18

Which of the following is a wildcard that matches 0 or more of any character for the glob module?

. (Period)
! (Exclamation Point)
* (asterisk)
? (Question Mark)
Question 19
Which of the following is a wildcard to match just a single character for the glob module?
. (Period)
? (Question Mark)
! (Exclamation Point)
* (asterisk)
Question 20

If we wanted to detect what operating system the program is being ran on we can use

sys.operating_system
os.name
sys.name
OS.OS
Which of the following are true docstrings?
They can be assigned to variables.
They only allow single line comments.
Docstrings are parsed by the help function. They allow multiline strings without escape characters.
Question 2

To make an inline comment we use what symbol?

--

.

#

//

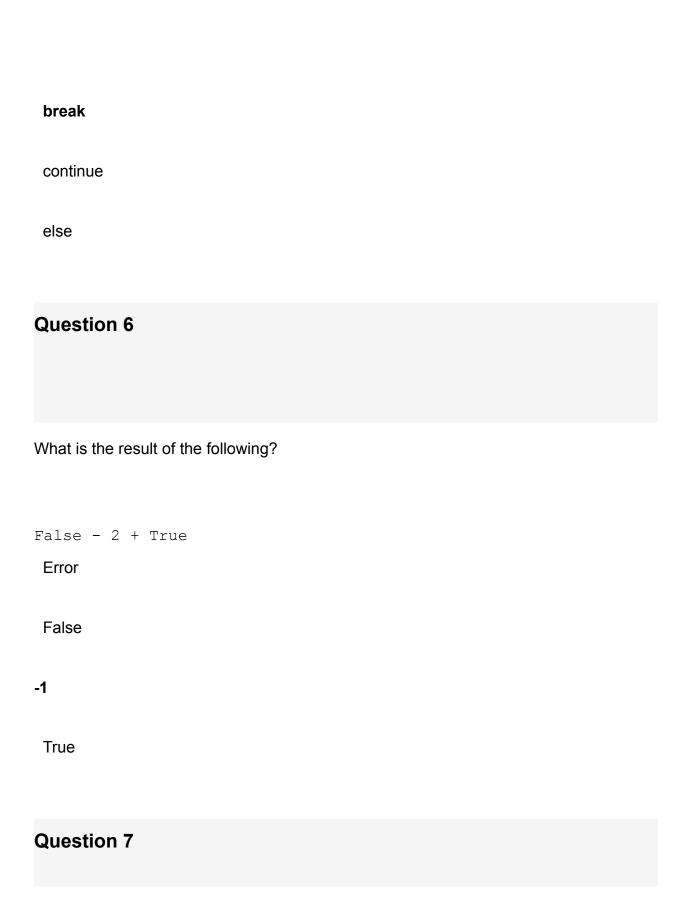
Question 3

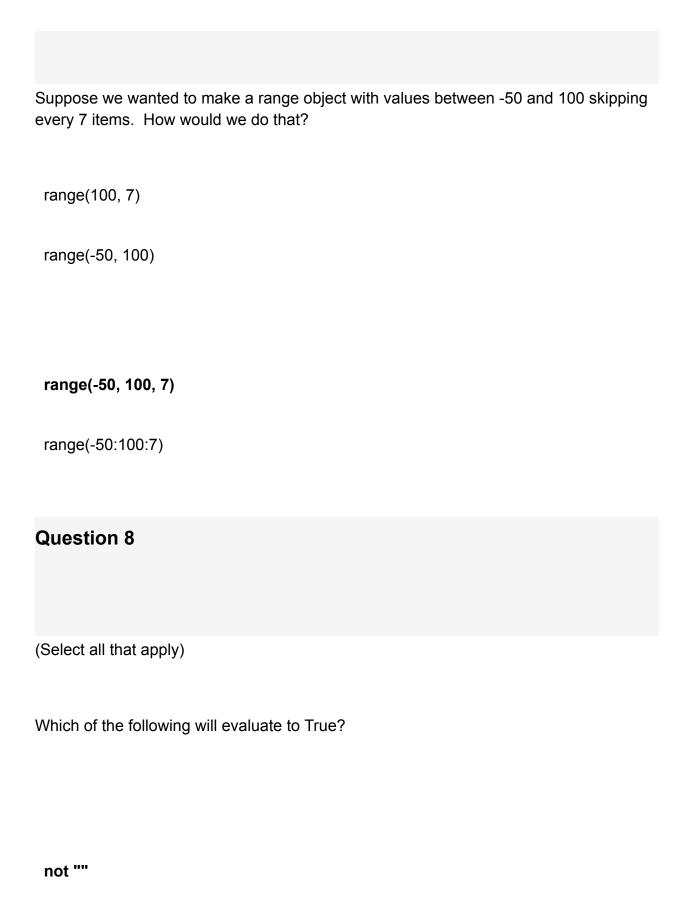
Which of the following examples of unpacking are valid?

$$a, b, c = [1, 2]$$

foo(*[1, 2, 3]) #foo is a function

Question 4
(Select all that apply) Which of the following are comparison operators
>=
And
==
or
is
Question 5
Which of the following is used to exit a loop and continue with the rest of the program?
exit





 $\{1, 2, 3, 4\}$

not None

Question 9

(Select all that apply) Which of the following will evaluate to False?

Empty strings

None

False	
Empty lists	
Question 10	
What is the result of the following?	
True or not False	
True	
False	
Question 11	

What is the result of the following?

```
a = 4

if a >= 10:
    print("Greater than 10")
elif a >= 7:
    print("Greater than 7")
elif a >= 4:
    print("Greater than 4")
elif a >= 1:
```

Greater than 4

Greater than 7

Greater than 10

Greater than 7

Greater than 2

Question 12

In order to create an else-if statement (an else with a condition) you use the _____ keyword.

elif

Question 13

What is the result of the following?

```
[[i for i in range(1, j+1)] for j in range(1, 5)]
[1, 2, 3, 4]
```

[[1], [1, 2], [1, 2, 3], [1, 2, 3, 4]]

$$\hbox{\tt [[1,2,3,4],[1,2,3,4],[1,2,3,4],[1,2,3,4]]}$$

Error

Question 14

Which of the following is true about the for loop?

A for loop uses a conditional to determine when to keep going or when to stop.

For loops use an incrementor to determine how many times the loop should continue.

For loops iterate over sequences or iterables such as lists, strings, sets, tuples, and others.

The else clause of a for loop occurs when it exits abruptly.

Question 15

Which of the following is true about the while loop?

The else clause of a while loop will execute when the loop exits normally (not breaking).

A while loop iterates over a sequence or iterable such as a list, string, tuple, or others.

A while loop uses an incrementor to determine the number of times the loop should occur.

The else clause of a while loop occurs when the loop exits after a break statement is reached.

Question 16

Generators are created by using what keyword?

gen

yield

generator

return

Question 17

What is the result of the following?

```
def times_two(x):
    return x * 2

def map(function, seq):
    return [function(n) for n in seq]

1 = [1, 2, 3]
```

```
map(times_two, 1)
 4
[2, 4, 6]
 Error
 [times_two, times_two, times_two]
Question 18
Which of the following will create a function called foo with 3 parameters?
 def function foo(a, b, c):
 define foo(a, b, c)
 foo(a, b, c)
def foo(a, b, c):
```

Question 19

What keyword is used to create as function?
define
func
function
def
Question 20
Which of the following will allow an arbitrary list of arguments to be passed to a function in the function header?
kwargs
*a
list
**a

Which of the following is used to skip the rest of the loop block and move to the next iteration of the loop?
break
continue
else
exit
Question 6
Comments are runnable snippets of code.
True
False

Question 8
(Select all that apply) Which of the following will evaluate to False?
Empty lists
Empty strings
False
None
Question 9

(Select all that apply) Which of the following will evaluate to True?
0
True
Non-empty lists
Empty dictionaries
Question 10
What is the result of the following?
a = 3 $b = 7$ $c = 5$
a < b > c

True

False

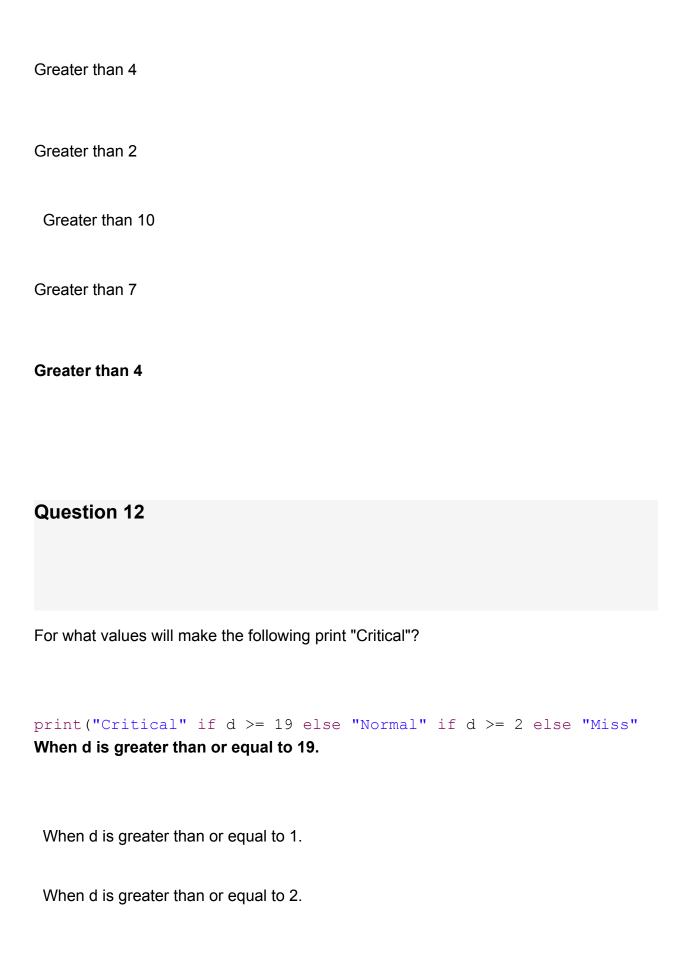
Question 11

What is the result of the following?

```
a = 4

if a >= 10:
    print("Greater than 10")
elif a >= 7:
    print("Greater than 7")
elif a >= 4:
    print("Greater than 4")
elif a >= 1:
```

Greater than 7



Question 13

What is the result of the following?

```
[i for i in range(1, 50) if i % 3 == 0 and i % 5 == 0]
```

[3, 5, 6, 9, 10, 12, 18, 20, 21, 24, 25, 27, 33, 35, 36, 39, 40, 42, 48]

[3, 5, 6, 9, 10, 12, 15, 18, 20, 21, 24, 25, 27, 30, 33, 35, 36, 39, 40, 42, 45, 48]

Error

[15, 30, 45]

Question 14

Which of the following is true about the for loop?

For loops iterate over sequences or iterables such as lists, strings, sets, tuples, and others.

A for loop uses a conditional to determine when to keep going or when to stop.

The else clause of a for loop occurs when it exits abruptly.

For loops use an incrementor to determine how many times the loop should continue.

Question 15

What is true about the following while loop?

```
a = 10
while a > 0:
    print(a)
    a += 1
```

The while loop won't execute since the condition will be false.

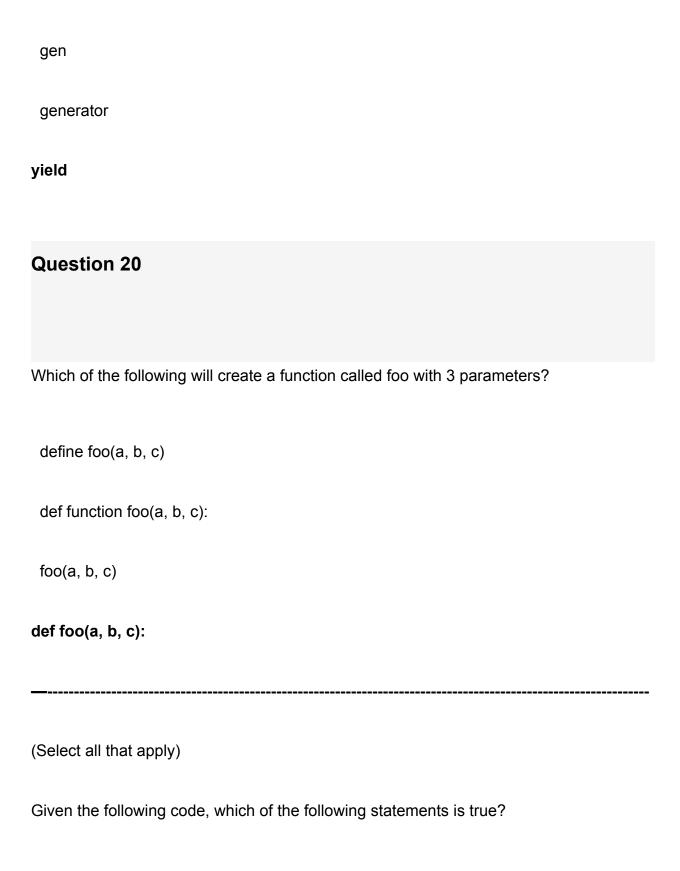
This is an infinite loop and will not stop execution.

The numbers 10 to 20 will be printed.

It is missing parenthesis and will throw a syntax error. **Question 16** (Select all that apply) Which of the following is true about functions? All functions are anonymous. Functions can be passed to other functions. Parameters can have a default value. Keyword arguments must come before all other argument types. **Question 17**

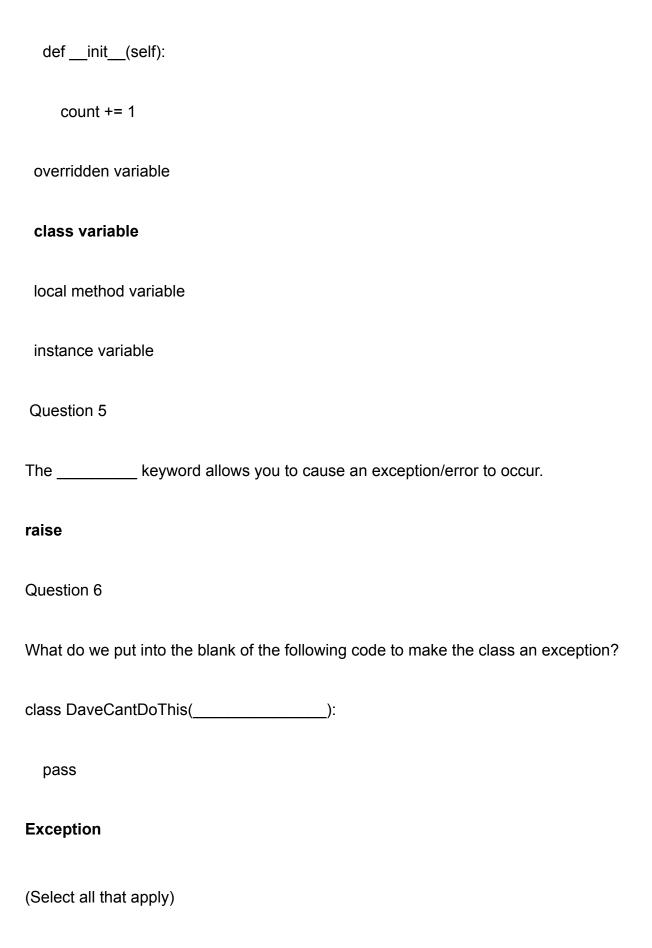
What keyword is used to create as function?

def	
function	
func	
define	
Question 18	
Functions cannot be passed to other functions.	
True	
False	
Question 19	
Generators are created by using what keyword?	
return	

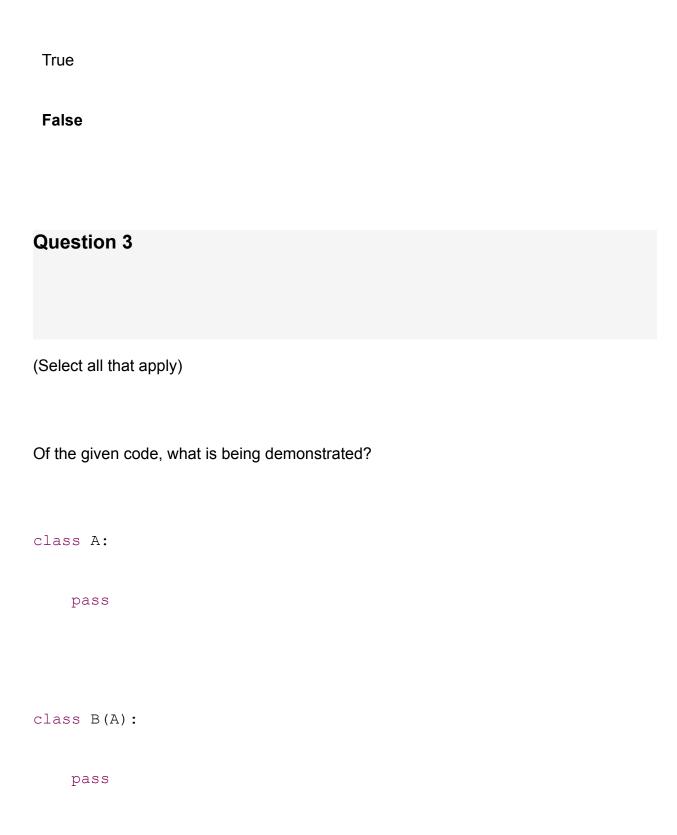


class A:
pass
class B(A):
pass
Class B is a subclass of class A.
Class B is a super class of class A.
Class A is a subclass of class B.
Class A is a super class of class B.
Question 2
Functions are defined inside of classes and can only be accessed by an object of the class.
True
False
Question 3
(Select all that apply)

Of the given code, what is being demonstrated?
class A:
pass
class B(A):
pass
class variables
classes
overriding
inheritance
Question 4
Given the following code, what is the variable count considered?
class Agent:
count = 0



Given the following code, which of the following statements is true?
class A:
pass
class B(A):
pass
Class B is a subslass of class A
Class B is a subclass of class A.
Class B is a super class of class A.
Class A is a subclass of class B.
Class A is a super class of class B.
olugo / tio a capor claco or claco Di
Question 2
Functions are defined inside of classes and can only be accessed by an object of the class.



class variables

classes

overriding

inheritance

Question 4

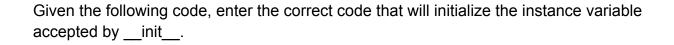
Given the following code, what is the variable **count** considered?

```
class Agent:
    count = 0

def __init__(self):
    count += 1
```

overridden variable
class variable
local method variable
instance variable
Question 5
The keyword allows you to cause an exception/error to occur.
raise
Question 6
What do we put into the blank of the following code to make the class an exception?

<pre>class DaveCantDoThis():</pre>
pass
Exception
Question 7
You should only use the general BaseException to catch all exceptions.
True
False
Question 8
Python scripts are also called (all lowercase)
modules
Question 10



class A:
 def __init__(self, arg):

#initialize arg as an instance variable

A.arg = arg

self.arg = arg

super().arg = arg

arg = arg

Question 11

The Chairman of the fall the D. the existence of a their discrete at the

The ______.py file is used to tell the Python interpreter that this directory is a package.

__init__

Question 12

Given the following code, what will the result be?

```
class A:
    num = 100

    def __init__(self):
        self.num = 500

a = A

print(a.num)
```

100 (with margin: 0)

Question 13

Which of the following methods creates a proper constructor?

def __init__(self)

def init(self)

def construct(self)

def __construct__(self)

Question 14

Which of the following methods will allow a class to overload the plus (+) operator for a given class?

__add__

add_op
plus_op
plus
Question 15
The keyword used to create an alias is (This is used inside statements such as imports, except clauses, and with contexts)(Select all that apply)
Given the following code, which of the following statements is true?
class A:
pass
class B(A):
pass

Class B is a subclass of class A.
Class B is a super class of class A.
Class A is a subclass of class B.
Class A is a super class of class B.
Question 2
Functions are defined inside of classes and can only be accessed by an object of the class.
True
False
Question 3

```
(Select all that apply)
Of the given code, what is being demonstrated?
class A:
    pass
class B(A):
    pass
 class variables
classes
 overriding
inheritance
Question 4
```

Given the following code, what is the variable **count** considered?

```
class Agent:
    count = 0
    def __init__(self):
         count += 1
 overridden variable
class variable
 local method variable
 instance variable
Question 5
The _____ keyword allows you to cause an exception/error to occur.
```

raise

Question 6
What do we put into the blank of the following code to make the class an exception?
<pre>class DaveCantDoThis():</pre>
pass Exception
Question 7
You should only use the general BaseException to catch all exceptions.
True
False
Question 8

Python scripts are also called modules



(Select all that apply)

Which of the following is equivalent to 3 - 2?

```
(2).__sub__(3)
```

Question 10

Given the following code, enter the correct code that will initialize the instance variable accepted by __init__.

```
class A:
    def __init__(self, arg):
        ____ #initialize arg as an instance variable

A.arg = arg

self.arg = arg

arg = arg
```

Question 11

The ______.py file is used to tell the Python interpreter that this directory is a package.

__init__

Question 12

Given the following code, what will the result be?

```
class A:
    num = 100

def __init__(self):
    self.num = 500

a = A

print(a.num)
```

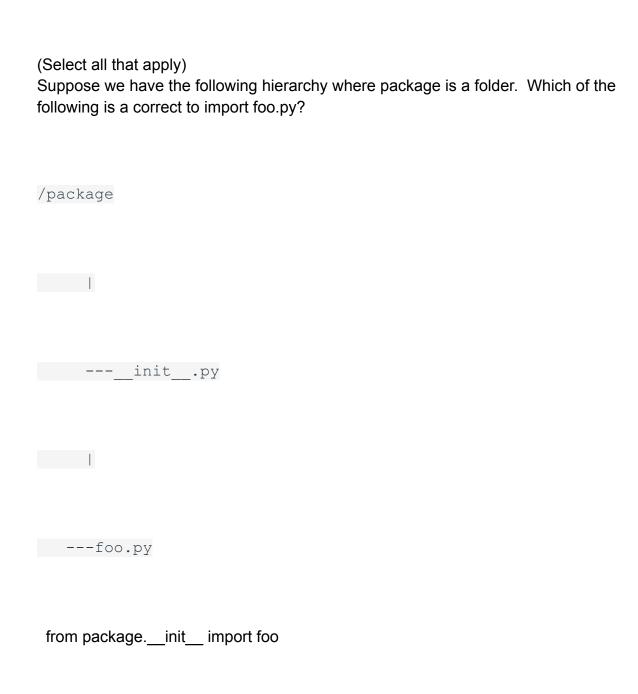
Question 13

100 (with margin: 0)

Which of the following methods creates a proper constructor?
definit(self)
def init(self)
def construct(self)
defconstruct(self)
Question 14
Which of the following methods will allow a class to overload the plus (+) operator for a given class?
add
auu
add_op
plus_op

plus
Question 15
The keyword used to create an alias is (This is used inside statements such as imports, except clauses, and with contexts)
Ougstion 16
Question 16
The Python standard for the name of the instance variable inside class methods is It is also the first variable that must be made in a class method.
self
Question 17

Which of the following will allow a class to overload the minus (-) operator for a given class?
minus_op
sub_op
sub
minus
Question 18
The first argument to any method of an object is the object itself.
True
False
Question 19



from package import *

from package import foo

import package.foo

```
Question 20
(Select all that apply)
```

```
class A:
    def do_work(self):
       pass

class B:
    def do_stuff(self):
```

Which statements about the following code is true?

```
pass
```

```
class C(A):
```

pass

```
class D(B):
```

pass

class E(D):

pass

Instances of class E have a method called do_stuff.

Instances of class E and D are of type B.

Instances of class D have a method called do_stuff.
Instances of class C have a method called do_work.
Question 16
The Python standard for the name of the instance variable inside class methods is It is also the first variable that must be made in a class method.
self
Question 17
Which of the following will allow a class to overload the minus (-) operator for a given class?
minus_op
sub_op
sub

minus	
Question 18	
The first argument to any method of an object is the object itself.	
True	
False	
Question 19 Suppose we have the following hierarchy where package is a folder. W following is a correct to import foo.py?	hich of the
/package	
initpy	

```
---foo.py
```

from package import foo

from package import *

import package.foo

Question 20

(Select all that apply)

Which statements about the following code is true?

```
class A:
    def do_work(self):
```

pass

```
class B:
    def do_stuff(self):
       pass
class C(A):
   pass
class D(B):
   pass
class E(D):
   pass
```

Instances of class E have a method called do_stuff.
Instances of class E and D are of type B.
Instances of class D have a method called do_stuff.
Instances of class C have a method called do_work.
Question 7
You should only use the general BaseException to catch all exceptions.
True
False
Question 8
Python scripts are also called (all lowercase)
modules

Question 9
(Select all that apply)
Which of the following is equivalent to 3 - 2?
(3)sub(2)
t = 3
tsub(2)
(2)sub(3)
Question 10
Given the following code, enter the correct code that will initialize the instance variable accepted byinit
class A:
definit(self, arg):
#initialize arg as an instance variable
A.arg = arg
self.arg = arg

```
super().arg = arg
 arg = arg
Question 11
The ______py file is used to tell the Python interpreter that this directory is a
package.
__init__
Question 12
Given the following code, what will the result be?
class A:
  num = 100
  def __init__(self):
    self.num = 500
a = A
print(a.num)
```

100
100 (with margin: 0)
Question 13
Which of the following methods creates a proper constructor?
definit(self)
def init(self)
def construct(self)
defconstruct(self)
Question 14
Which of the following methods will allow a class to overload the plus (+) operator for a given class?
add
add_op

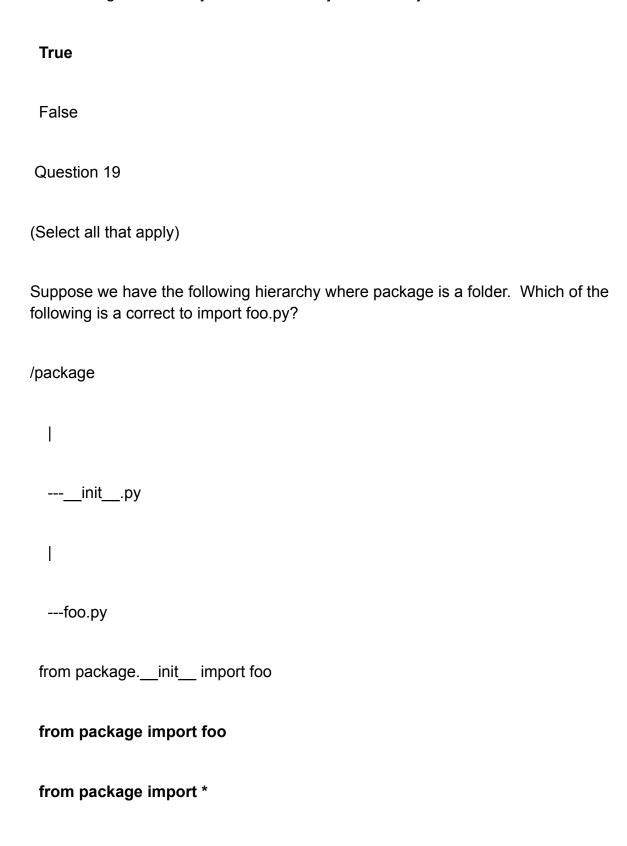
__plus_op__

__plus__

Question 15
The keyword used to create an alias is (This is used inside statements such as imports, except clauses, and with contexts)
as
Question 16
The Python standard for the name of the instance variable inside class methods is It is also the first variable that must be made in a class method.
self
Question 17
Which of the following will allow a class to overload the minus (-) operator for a given class?
minus_op
sub_op
sub
minus

Question 18

The first argument to any method of an object is the object itself.



import package.foo Question 20 (Select all that apply) Which statements about the following code is true? class A: def do_work(self): pass class B: def do_stuff(self): pass

class C(A):

pass

ass D(B):
pass
ass E(D):
pass
nstances of class E have a method called do_stuff.
nstances of class E and D are of type B.
nstances of class D have a method called do_stuff.
nstances of class C have a method called do_work.