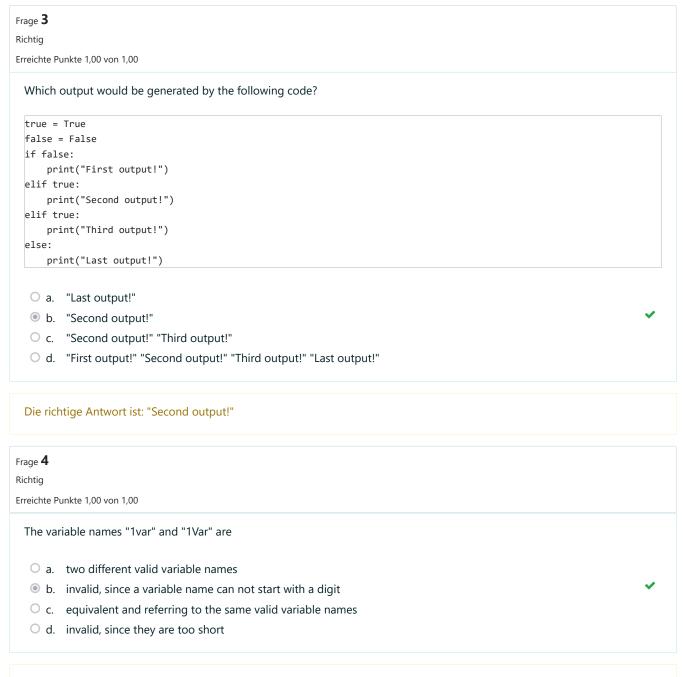
Frage **1** Vollständig Nicht bewertet By selecting "I confirm", I hereby declare under oath that I will work on this examination on my own without any help or any third-party assistance. By selecting "I confirm", I understand that noncompliance results in invalidation of the assessment, whereby the invalidated examination will be added to the total number of retakes and noncompliance may result in further legal action. O a. I do not confirm b. I confirm Die richtige Antwort ist: I confirm Frage **2** Richtig Erreichte Punkte 1,00 von 1,00 Which of the following lines would create a list in Python? a. [1, 2, 3, 4] O b. (1, 2, 3, 4) o. def I(1, 2, 3, 4): O d. 1, 2, 3, 4

Die richtige Antwort ist: [1, 2, 3, 4]



Die richtige Antwort ist: invalid, since a variable name can not start with a digit

Frage 5	
Richtig	
Erreichte Punkte 1,00 von 1,00	
After the line	
a = 4.0	
the variable "a" will reference to	
O a. an integer object with value four	
O b. two integer objects with value four and zero	
O c. an integer object with value forty	
d. a float object with value four	✓
Die richtige Antwort ist: a float object with value four	
Frage 6	
Richtig	
Erreichte Punkte 1,00 von 1,00	
The code	
a = [str(i) for i in range(3)]	
will	
a. create a list ["0", "1", "2"]	✓
O b. create a tuple ("0", "1", "2")	
O c. create a set {"0", "1", "2"}	
O d. fail because this is not valid Python	
Die richtige Antwort ist: create a list ["0", "1", "2"]	

Frage 7	
Richtig	
Frreichte Punkte 1,00 von 1,00	
Assume variable "a" references a string object with content "123". After the line	
c = len(a)	
the variable "c" will reference	
O a. an string object with content "3"	
b. an integer object with content 3	✓
O c. an string object with content "6"	
O d. an integer object with content 6	
Die richtige Antwort ist: an integer object with content 3	
Richtig irreichte Punkte 1,00 von 1,00 Which output, if any, would be generated by the following code?	
true = True	
false = False	
<pre>if false: print("First output!")</pre>	
elif false:	
<pre>print("Second output!")</pre>	
elif false:	
<pre>print("Third output!") else:</pre>	
<pre>print("Last output!")</pre>	
a. "First output!" "Second output!" "Third output!"	
O b. No output would be generated	
Oc. "First output!" "Second output!" "Third output!" "Last output!"	
d. "Last output!"	~
Die richtige Antwort ist: "Last output!"	

Frage 9	
Richtig	
Erreichte Punkt	e 1,00 von 1,00
The lines	
a = [1, 2,	, 3]
b = a	
would	
O a. cre	eate one list object, which is referenced by variable "a", and then compare it to variable "b".
b. cre	eate one list object, which is referenced by variables "a" and "b".
O c. fai	ls, since lists are not mutable.
O d. cre	eate two list objects, which are referenced by variables "a" and "b".
Die richtige	e Antwort ist: create one list object, which is referenced by variables "a" and "b".
Frage 10	
Richtig	
Erreichte Punkt	e 1,00 von 1,00
After the li	ne
a = 4	
the variabl	e "a" will
O a. ref	ference a bool object
O b. ref	ference a float object
c. ref	ference an integer object
O d. ref	ference a string object
Die richtige	e Antwort ist: reference an integer object

Frage 11
Richtig
Erreichte Punkte 1,00 von 1,00
Assume that function a_function() raises a ValueError. What will the following code do?
<pre>try: a_function()</pre>
except ValueError:
<pre>print("there was an exception!") raise TypeError</pre>
O a lit will fail since there is no "finally" statement
 a. It will fail since there is no "finally" statement. b. It will print "there was an exception!" and raise a TypeError.
c. It will print "there was an exception!" and continue without raising an exception.
Od. It will print "there was an exception!" and raise a ValueError.
d. It will print there was all exception: and raise a value life.
Die richtige Antwort ist: It will print "there was an exception!" and raise a TypeError.
Frage 12
Richtig
Erreichte Punkte 1,00 von 1,00
What does a "bit" refer to?
O a. It refers to 32 or 64 bytes, depending on the operating system
O b. It represents 1 byte (it's a synonym).
 c. It represents a logical state with one of two possible values.
Od. It refers to 8 bytes.
Die richtige Antwort ist: It represents a logical state with one of two possible values.
Frage 13
Richtig
Erreichte Punkte 1,00 von 1,00
What does a "byte" refer to?
O a. It refers to 1 bit (it's a synonym)
● b. It refers to 8 bits ✓
o. It refers to 32 or 64 bits, depending on the operating system
O d. It refers to 2 bits
Die richtige Antwort ist: It refers to 8 bits

Frage 14	
Richtig	
Erreichte Punkte 1,00 von 1,00	
The line	
(1, 'a', 1.0)	
would	
a. create a dictionary containing an integer 1, a string 'a', and a float 1.0	
b. create a tuple containing an integer 1, a string 'a', and a float 1.0	
O c. create a list containing an integer 1, a string 'a', and a float 1.0	
O d. fail since list and tuple elements have to have the same data type, which is not the case here	
Die richtige Antwort ist: create a tuple containing an integer 1, a string 'a', and a float 1.0	
Frage 15	
Richtig	
Erreichte Punkte 1,00 von 1,00	
Assume variable "var" references a list ['a', 'b', 'c']. The line	
var[1]	
would	
O a. return the first element 'a' in the list	
O b. return the last element 'c' in the list	
O c. return all list elements after the first one	
d. return the second element 'b' in the list	•
Die richtige Antwort ist: return the second element 'b' in the list	

Frage 16
Richtig
Erreichte Punkte 1,00 von 1,00
The line
list(range(5))
would
a. return a list with only one element, which is the integer 5
O b. return a list of 5 random integer numbers

O d. return a list with only one element, which is the sum of integers 0 to 5
Die richtige Antwort ist: return a list of integers from 0 to 5, excluding the 5
Frage 17
Richtig
Erreichte Punkte 1,00 von 1,00
Consider the code
<pre>def fun(n):</pre>
if n == 1:
return 1
return 1 + fun(n - 1)
What is the result for the function call fun(0)?
O a. 0
O b. Positive infinity
 c. There is no result, since it produces an endless recursion.
O d. 1
Die richtige Antwort ist: There is no result, since it produces an endless recursion.

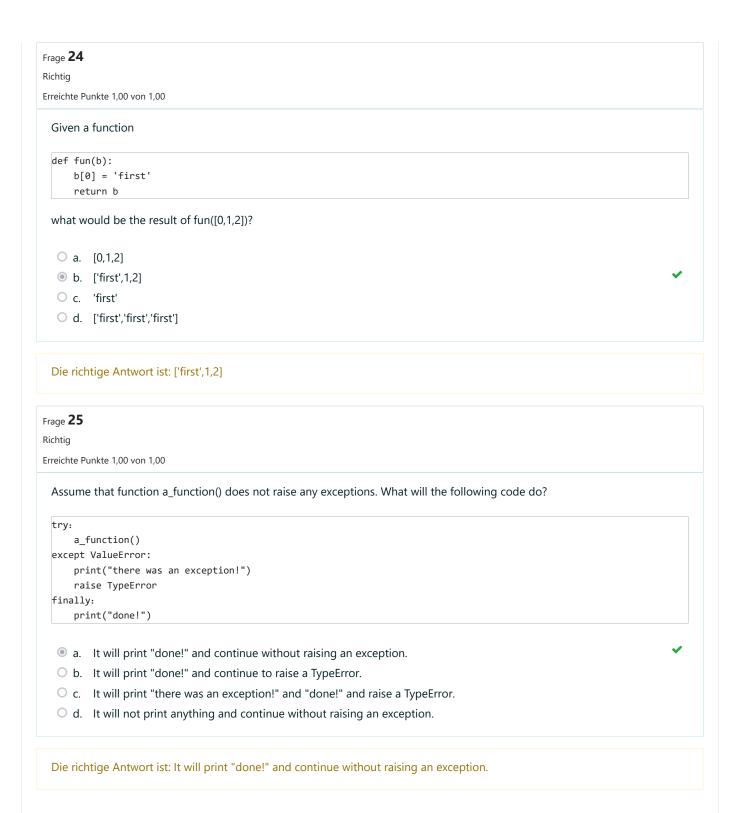
Frage 18 Richtig Erreichte Punkte 1,00 von 1,00 After the execution of the following code, which statement would be correct? a = 2b = 3c = 1 def fun(a, b): c = a * 2 + breturn c c = fun(a=1, b=2) O a. The value of variable "c" is 1. O b. The value of variable "c" is 7. o c. The value of variable "c" is 4. O d. We would receive an error message (UnboundLocalError). Die richtige Antwort ist: The value of variable "c" is 4. Frage 19 Richtig Erreichte Punkte 1,00 von 1,00 Converting the boolean True to a float will O a. fail because boolean types can not be converted to float O b. give a float object with content 0.0 c. give a float object with content 1.0 O d. give a float object with content -1.0 Die richtige Antwort ist: give a float object with content 1.0

Frage 20 Richtig Erreichte Punkte 1,00 von 1,00 After the execution of the following code, which statement would be correct? a = 2b = 3c = 1 def fun(a, b): c = a * 2 + breturn c c = fun(b, a)O a. The value of variable "c" is 7. • b. The value of variable "c" is 8. O c. The value of variable "c" is 1. O d. We would receive an error message (UnboundLocalError). Die richtige Antwort ist: The value of variable "c" is 8. Frage 21 Richtig Erreichte Punkte 1,00 von 1,00 Which of the following statements is NOT correct? a. A Python function must always explicitly return a value. O b. A Python function can have multiple "return" statements. O c. A Python function can return different values, even of different datatypes. O d. A Python function can optionally return a value. Die richtige Antwort ist: A Python function must always explicitly return a value.

Frage 22	
Richtig	
Erreichte P	Punkte 1,00 von 1,00
What o	does a while-loop do in Python?
O a.	Given an integer, it loops over a block of code where the number of iterations is specified by the integer
O b.	Given an iterable, such as a list, it loops over the iterable and returns the current element of the iterable at each iteration
O c.	Given an iterable, such as a list, it loops over the iterable and returns the index of the current element of the iterable at each iteration
d.	Given a boolean condition, it loops over a block of code as long as the condition evaluates to True
Die ricl	htige Antwort ist: Given a boolean condition, it loops over a block of code as long as the condition evaluates to True
Frage 23	
Richtig	
Erreichte P	unkte 1,00 von 1,00
After tl	he execution of the following code, which statement would be correct?
a = 2	
b = 3	
c = 1	n(a, b):
	= a * 2 + b
	turn c
c = fu	n(1, 2)
O a.	We would receive an error message (UnboundLocalError).

Die richtige Antwort ist: The value of variable "c" is 4.

b. The value of variable "c" is 4.c. The value of variable "c" is 7.d. The value of variable "c" is 1.



rage 26		
ichtig		
rreichte Pu	inkte 1,00 von 1,00	
The line		
a == b		
would		
O a.	assign the object referenced to by variable "a" to variable "b".	
b.	check if variables "a" and "b" reference objects with the same numerical value.	~
O c.	assign the object referenced to by variable "b" to variable "a".	
O d.	check if variables "a" and "b" reference the same object.	
Die rich	tige Antwort ist: check if variables "a" and "b" reference objects with the same numerical value.	
✓ Pres	ence in lecture hall	
Direkt	zu:	