Functions, Conditionality and Loops Exam

- Attempt all 16 questions.

- Please do not round any numerical answers, submit numbers in their entirety.

- When requiring a decimal separator, you should use a period. For example: 1.632

1. In a Jupyter Notebook, use the help function on the max function. In the output, what's the name of the first argument in the max function?

- ○ default=obj

- ○ iterable

- ○ key=func

- ○ *[

2. What data type is the output of the input function?

- ○ Boolean

- ○ String

- ○ Nothing

- ○ Integer

3. What would the output be of the following: int("9")?

○ "nine"

○ "9"

◉ 9

○ An error

4. What would the output be of the following:
sum([6,15,16,21,8,13,7,8,1,3])/len([6,15,16,21,8,13,7,8,1,3])?

○ 9.8

○ 98

○ 9

○ 10

5. What method can be used to insert a value at a specific position in a list?

○ append

○ insert

○ prepend

○ pop

6. What method can be used to insert a value at the end of a list?

7. What statement must be used when creating a custom function?

8. What statements outputs a value from the function?

9. What file type must a custom library be stored as?

10. How do we reference a function from an imported library?

○ pop

○ prepend

○ insert

○ append

○ def

○ cust

○ func

○ dec

○ release

○ send

○ return

○ output

○ .ipynb

○ .jup

○ .pt

○ .py

○ By adding the name of the library followed by a . before the name of the function

○ By adding the name of the library followed by a : before the name of the function

○ By adding the name of the library followed by a . after the name of the function

11. What punctuation must appear at the end of the first line of an if statement?

○ >

○ :

○ .

○ ;

12. What's the purpose of the elif statement?

○ It allows us to use conditional operators such as and/or

○ It allows us to add further conditions and actions

○ It denotes what happens when the condition in the if statement is not met

○ It enables us to use conditional statements within loops

13. Let a=0 and b=1. Which of the following IF satements will print the value True?

○ "if a==1 or b==1: print(True)"

○ "if a==1 and b==0: print(True)"

○ "if a==1 and b==1: print(True)"

○ "if a==1 or b==0: print(True)"

14. Let a=0, b=0 and c=0.5. Which of the following IF functions returns a value of True?

○ "if (a==1 or b==1) and c>0.5: print(True)"

○ "if (a==1 and b==1) and c>=0.5: print(True)"

○ "if (a==1 and b==1) and c>=0.5: print(True)"

◉ "if (a==1 or b==0) and c>=0.5: print(True)"

15. Let a=268 and b=[1,2,3,4,5]. Write a for loop that iterates through b. For each iteration, set the value of a to be equal to a minus b squared. What's the value of a when the for loop finishes?

◉ 213

○ -3145

○ 238

○ 323

16. Let a=1.01 and b=0. Write a for loop that stops when a is greater than 123456. In each loop set a to be equal to a squared. Set b to be equal to b plus 1. What is the value of b once the loop finishes?

○ 11

○ 17

◉ 123455

○ 104

SUBMIT EXAM

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