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1. What will be the output of the following code snippet? `def func(a, b): return b if a == 0 else func(b % a, a)` `print(func(30, 75))`

Ans: 15

2. `numbers = (4, 7, 19, 2, 89, 45, 72, 22)` `sorted_numbers = sorted(numbers)` `even = lambda a: a % 2 == 0` `even_numbers = filter(even, sorted_numbers)` `print(type(even_numbers))`

Ans: Filter

3. As what datatype are the `*args` stored, when passed into

Ans: Tuple

4. `set1 = {14, 3, 55}` `set2 = {82, 49, 62}` `set3={99,22,17}` `print(len(set1 + set2 + set3))`

Ans: Error

5. What keyword is used in Python to raise exceptions?

Ans: raise

6. Which of the following modules need to be imported to handle date time computations in Python?

Ans: datetime

7. What will be the output of the following code snippet? `print(4**3 + (7 + 5)**(1 + 1))`

Ans: 208

8. Which of the following functions converts date to corresponding time in Python?

Ans: `strptime`

9. The python tuple is _____ in nature

Ans: immutable

10. The ____ is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.

Ans: `range()`

11. Amongst which of the following is a function which does not have any name?

Ans: Lambda function

12. The module Pickle is used to ____.

Ans: Both A and B

13. Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Ans: dump() method

14. Amongst which of the following is / are the method used to unpickling data from a binary file?

Ans: load()

15. A text file contains only textual information consisting of ____.

Ans: All of the mentioned above

16. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.) captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", } Enterprise Picard, Voyager Janeway Defiant Sisko

Ans: both a and b

17. Which of the following lines of code will create an empty dictionary named captains?

Ans: captains = {}

18. Now you have your empty dictionary named captains. It's time to add some data! Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager": "Janeway", and "Defiant": "Sisko". Which of the following code snippets will successfully add these key-value pairs to the existing captains dictionary?

Ans: captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", }

19. You're really building out the Federation Starfleet now! Here's what you have: captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", "Discovery": "unknown", } Now, say you want to display the ship and captain names contained in the dictionary, but you also want to provide some additional context. How could you do it?

Ans: for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")

20. You've created a dictionary, added data, checked for the existence of keys, and iterated over it with a for loop. Now you're ready to delete a key from this dictionary: captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", "Discovery": "unknown", }

Ans: del captains["Discovery"]