

Assignment No 1

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))` a) 10 b) 20 c) 15 d) 0

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: Tuples

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

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 (anonymous function)

12. The module Pickle is used to ____.

Ans: both a & b (Serializing Python object structure & De-serializing Python object structure)

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: b) 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:
What statement will remove the entry for the key "Discovery"?

Ans: del captains["Discovery"]