

Internship 1st Assignment

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 : Correct answer is 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: Correct answer is Filter.

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

Ans: Correct answer is 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 keyword is used to raise an exception.

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

Ans: Correct answer is datetime Module need to be imported to handle date time computations in Python.

7. What will be the output of the following code snippet?

Ans: Correct Answer is 208.

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

Ans: strptime is correct answer... strptime() function in Python converts date to corresponding time in Python.

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: Correct answer is range().

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

Ans: Lambda Function is known as anonymous functions.

12. The module Pickle is used to ____

Ans: Serializing Python object structure and De-serializing Python object structure Both are used.

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

Ans: dump() method is used to convert python object for writing data in binary file.

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

Ans: load() method

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

Ans: All of the Mentioned above ..Alphabets, numbers and special symbols

16. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

Ans: both a and b options

a) for ship, captain in captains.items():
print(ship, captain)

b) for ship in captains:
print(ship, captains[ship])

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

Ans: correct answer is captains = {} it will creat empty dictionary.

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: c) options is correct

```
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}.")  
&
```

c) for captain, ship in captains.items():

```
print(f"The {ship} is captained by {captain}.")
```

b and c option is correct this code shown ship and captain name with additional text but

a) option show the additional text but not showing dictionary value name

D is correct all code shown additional context

- 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: corrent answer is del captains["Discovery"]