# Assignment (16/02/2024)

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))

Answer:**15**


2. numbers = (4, 7, 19, 2, 89, 45, 72, 22)

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))

Answer: **Filter**


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

Answer: **Tuple**


4. set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

Answer: **Error**


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

Answer: **Raise**

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

 Answer: **datetime**

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

print(4**3 + (7 + 5)**(1 + 1))

Answer: **208**

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

Answer: **strptime**

9. The Python tuple is _____ in nature.

Answer: **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.

Answer: **range**

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

Answer: **Lambda**

12. The module Pickle is used to ____.

Answer: **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?

Answer: **dump()method**

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

Answer: **load()**

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

Answer: **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

Answer: **both A and B**

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

Answer: **captains = {}**

18. Now you have your empty dictionary named captains. It's time to add some data!

Answer: **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?

Answer: **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", }

Answer: **captains.remove()**