ASSIGNMENT (FILE1)

Q1) what will be the output of the following code snippet?

```python
def func(a, b):
 return b if a == 0 else func(b % a, a)
print(func(30, 75))
```

C)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))

```python
numbers=(4,7,19,2,89,45,72,22)
sorted_numbers=sorted(numbers)
sorted_numbers
```

B) FILTER

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

a) Tuple

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

d) Error

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

a) raise

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

c) datetime

What will be the output of the following code snippet?

In [24]:

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

C) 208

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

b) strftime

9) The python tuple is _____ in nature.

b) 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.

A. range()

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

C. Lambda function

12) The module Pickle is used to ___.

C. Both A and B

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

B. dump() method

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

A. load()

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

D. 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

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

```
{'Enterprise': 'Picard', 'Voyager': 'Janeway', 'Defiant': 'Sisko'}
d) both a and b
```

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

d) 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?

b) captains["Enterprise"] = "Picard" captains["Voyager"] = "Janeway" captains["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?

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

```
captains = {
 "Enterprise": "Picard",
 "Voyager": "Janeway",
 "Defiant": "Sisko",
 "Discovery": "unknown",
}
```


c) del captains["Discovery"]