ASSIGNMENT-1

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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 data type 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
(TypeError: unsupported operand type(s) for +: 'set' and 'set')
```

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: None
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 & B
13)Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?
Ans: dump()

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

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: 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
Ans: both a and b
17) Which of the following lines of code will create an empty dictionary named captains?
Ans: captions={}
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:
<pre>captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", "Discovery": "unknown", }</pre>
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():

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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"]