Internship Project 1

def func(a, b):
 return b if a == 0 else func(b%a, a)
 print(func(30,75))
 c) 15
 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))

- b) Filter
- 3. As what datatype are the *args stored, when passed into
 - a) Tuple
 - b) List
 - c) Dictionary
 - d) none

Ans → a) Tuple

4. set1 = {14, 3, 55}

$$set2 = \{82, 49, 62\}$$

 $set3 = \{99,22,17\}$
print(len(set1 + set2 + set3))

- d) Error (as + operand is not supported by 'Len' function)
- 5. What keyword is used in Python to raise exceptions?
 - a) raise
 - b) try
 - c) goto
 - d) except

Ans → b) Try

6.	Which of the following modules need to be imported to handle date time computations in Python? a) timedate b) date c) datetime
	d) time
	Ans → datetime
7.	print(4**3 + (7 + 5)**(1 + 1))
	a) 248 b) 169
	c) 208
	d) 233
	Ans \rightarrow c) 208
8	 a) strptime b) strftime c) both a) and b) d) None
	ans→ d) None, as datetime.combine() function is used.
	9. The python tuple is in nature. a) mutable b) immutable c) unchangeable d) none
	ans \rightarrow b) immutable
v A E	 O. 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() B. set() C. dictionary{} D. None of the mentioned above Ans → a) range()
1	1. Amongst which of the following is a function which does not have any name?
	A. Del function B. Show function

C. Lambda function
D. None of the mentioned above
Ans →c) Lambda Function()
12. The module Pickle is used to
A. Serializing Python object structure
B. De-serializing Python object structure
C. Both A and B
D. None of the mentioned above
Ans \rightarrow c) 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?
A. set() method
B. dump() method
C. load() method D. None of the mentioned above
D. None of the mentioned above
Ans \rightarrow b) dump() method // along with Pickle //
14. Amongst which of the following is / are the method used to unpickling data from a binary file? A. load()
B. set() method
C. dump() method
D. None of the mentioned above
Ans → a) Load()
15. A text file contains only textual information consisting of
A. Alphabets
B. Numbers
C. Special symbols
D. All of the mentioned above
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",
Periant : Sisko ;
Enterprise Picard,
Voyager Janeway
Defiant Sisko

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Ans \rightarrow a) for ship, captain in captains.items():
    print(ship, captain)
     17. Which of the following lines of code will create an empty dictionary named captains?
       a) captains = \{dict\}
       b) type(captains)
       c) captains.dict()
       d) captains = \{ \}
       ans \rightarrow 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?
       Ans → 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?
Ans \rightarrow 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",
       What statement will remove the entry for the key "Discovery"?
Ans \rightarrow c) del captains ["Discovery"]
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