Internship- project 1 Shivani Tiwari

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 datatype 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; 0

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

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; strptime

9) The python tuple is _____ in nature.
Ans; immuateble

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 and B.

13) Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?
Ans: dump()

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; Alphabets

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; 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;) 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; 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; del captains["Discovery"]