

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-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))`

Ans-b) Filter.

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

Ans-d) Tuple

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

Ans-d) Error

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

Ans- a) raise

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

Ans- c) datetime

7) What will be the output of the following code snippet? `print(4**3 + (7 + 5)**(1 + 1))` ?

Ans- b) 169

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

Ans- d) None

9) The python tuple is _____ in nature.

Ans-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.

Ans- A) range

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

Ans- C) lambda function

12) The module Pickle is used to ____.

Ans-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?

Ans- B) dump () method

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

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", } Enterprise
Picard, Voyager Janeway Defiant Sisko

a) for ship, captain in captains.items(): print(ship, captain)

b) for ship in captains: print(ship, captains[ship])

c) for ship in captains: print(ship, captains)

d) both a and b

ans- 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?

Ans- 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?

a) captains{"Enterprise" = "Picard"} captains{"Voyager" = "Janeway"} captains{"Defiant" = "Sisko"}

b) captains["Enterprise"] = "Picard" captains["Voyager"] = "Janeway" captains["Defiant"] = "Sisko"

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

d) None of the above

ans- a) 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?

- a) `for item in captains.items(): print(f"The [ship] is captained by [captain].")`
- b) `for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")`
- c) `for captain, ship in captains.items(): print(f"The {ship} is captained by {captain}.")`
- d) All are correct

ans- 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-c) `del captains["Discovery"]`