

Project: Batch DS2402

Assignment: file1

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Datatrained batch : DSG0823

Github link : <https://github.com/geetanjali1202/Internship>

Q1. 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))
```

Solution: 15

```
Q2. 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))
```

Solution : b) filter

Q3. As what datatype are the *args stored, when passed into

Solution : a) tuple

Q4. 4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

```
print(len(set1 + set2 + set3))
```

Solution : d) error

Q5. What keyword is used in Python to raise exceptions?

Solution : a) raise

Q6. Which of the following modules need to be imported to handle date time computations in Python?

Solution : c) datetime

Q7. What will be the output of the following code snippet?

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

Solution : c) 208

Q8. Which of the following functions converts date to corresponding time in Python?

Solution : a) strptime

Q9. The python tuple is _____ in nature.

Solution : b)immutable

Q10. 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.

Solution : a) range()

Q11. Amongst which of the following is a function which does not have any name?

Solution : c) Lambda function

Q12. The module Pickle is used to ____.

Solution : c) Both A and B

Q13. Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Solution : b) dump() method

Q14. Amongst which of the following is / are the method used to unpickling data from a binary file?

Solution : a) load()

Q15. A text file contains only textual information consisting of ____.

Solution : d) All of the mentioned above

Q16. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

captains =

```
{ "Enterprise": "Picard",
```

```
"Voyager": "Janeway",
```

```
"Defiant": "Sisko", }
```

Output -

Enterprise Picard

Voyager Janeway

Defiant Sisko

Solution : d) both a and b

Q17. Which of the following lines of code will create an empty dictionary named captains?

Solution : d) captains = {}

Q18. 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?

Solution :

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

Q19. 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?

Solution : b) for ship, captain in captains.items():

print(f"The {ship} is captained by {captain}.")

Q20. 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"?

Solution : c) del captains["Discovery"]