

Internship Assignment

Submitted by

Ajit A Gouda

Batch id: DS2311

MCQ

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))
```

- a) 10
- b) 20
- c) 15
- d) 0

```
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))
```

- a) Int
- b) Filter
- c) List
- d) Tuple

Ans. a

3) As what datatype are the *args stored, when passed into a) Tuple

- b) List
- c) Dictionary
- d) none

Ans. a

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

- a) 105
- b) 270
- c) 0
- d) Error

Ans. d

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

- b) try
- c) goto
- d) except

Ans. a

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

- a) timedata
- b) date
- c) datetime
- d) time

Ans. c

7) What will be the output of the following code snippet?

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

- a) 248
- b) 169
- c) 208
- d) 233

Ans. c

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

- b) strftime
- c) both a) and b)
- d) None

Ans. b

9) The python tuple is _____ in nature. a) mutable

- b)immutable
- c)unchangeable
- d) none

Ans. b

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.

- A. range()
- B. set()
- C. dictionary{}
- D. None of the mentioned above

Ans. a

Question 11

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

Question 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. c

Question 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

Ans. b

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

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

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

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. c

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. c

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. a

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"?

- a) `del captains`
- b) `captains.remove()`
- c) `del captains["Discovery"]`
- d) `captains["Discovery"].pop()`

Ans. c