Python Interview Questions

The previous materials on the topic can be found at the following links:

• https://bit.ly/2Yldr02 • https://bit.ly/30lfdF7 • https://bit.ly/3Hf5W1Q • https://bit.ly/3qL8WNA

Q1. Name a few libraries in Python used for Data Analysis and Scientific computations.

Answer: NumPy, SciPy, Pandas, SciKit, Matplotlib, Seaborn.

Q2. What does the "self" keyword do?

<u>Answer:</u> The **self** is a Python keyword that represents a variable that holds the instance of an object. In almost all the object-oriented languages, it is passed to the methods as a hidden parameter.

Q3. Which is the standard data missing marker used in Pandas?

Answer: NaN.

Q4. Which Python library would you prefer to use for Data Munging?

Answer: Pandas.

Q5. Which python library is built on top of matplotlib and Pandas to ease data plotting?

Answer: Seaborn.

Q6. What is pylab?

Answer: A package that combines NumPy, SciPy, and Matplotlib into a single namespace.

Q7. Name one of the most commonly used python libraries for Machine Learning?

Answer: SciKit-Learn.

Q8. What does init .py do?

Answer: _init_.py is an empty py file used for importing a module in a directory.

Q9. What is a pass in Python?

Answer: Pass in Python signifies a no operation statement indicating that nothing is to be done.

Q10. How can you check whether a pandas data frame is empty or not?

<u>Answer:</u> The attribute **df.empty** is used to check whether a **data frame** is empty or not.

Q11. How will you reverse a list in Python?

<u>Answer:</u> list.reverse(): This function reverses objects of list.

Q12. Do we need to declare variables with data types in Python?

<u>Answer:</u> No. Python is a dynamically typed language, which means that Python Interpreter automatically identifies the **data type** of a **variable** based on the type of value assigned to the **variable**.

Q13. Write a command to open the file c:\hello.txt for writing.

Answer: f = open("hello.txt", "wt")

Q14. What are the supported data types in Python?

Answer: Python has five standard data types: Numbers, Strings, Lists, Tuples, Dictionaries.

Q15. What is pass in Python?

<u>Answer:</u> Pass means, no-operation Python statement, or in other words it is a placeholder in a compound statement, where there should be a blank left and nothing has to be written there.

Q16. What are generators in Python?

<u>Answer:</u> The way of implementing iterators are known as **generators**. It is a normal function except that it yields expression in the function.

Q17. How can you copy an object in Python?

<u>Answer:</u> To copy an object in Python, you can try **copy.copy ()** or **copy.deepcopy()** for the general case. You cannot copy all objects but most of them.

Q18. Explain how to delete a file in Python?

Answer: By using a command **os.remove** (filename) or **os.unlink**(filename).

Q19. What's the process to get the home directory using $^{\prime}$ in Python?

<u>Answer:</u> You need to import the **os module**, and then just a single line would do the rest. import os print (os.path.expanduser('~'))

Q20. Is there a switch or case statement in Python? If not then what is the reason for the same?

<u>Answer:</u> No, Python does not have a **switch** statement, but you can write a **switch** function and then use it.

Q21. What Is %s In Python?

<u>Answer:</u> Python has support for formatting any value into a string. It may contain quite complex expressions. One of the common usages is to push values into a string with the **%s** format specifier. The formatting operation in Python has the comparable syntax as the C function **printf()** has.

Q22. Is it mandatory for a python function to return a value?

<u>Answer:</u> It is not at all necessary for a function to **return** any value. However, if needed, we can use **none** as a return value.

Q23. What is the difference between pass and continue in Python?

Answer: The continue statement makes the loop to resume from the next iteration. On the contrary, the pass statement instructs to do nothing, and the remainder of the code executes as usual.