PYTHON

Assignment Questions

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Assignment Questions

1. **Who** developed **Python** Programming Language?

Ans: **Guido van Rossum developed python programming language.**

2. **Which type of** Programming **does** Python support**?**

Ans:Python is a multi-paradigm programming language. Object-oriented programming and structured programming are fully supported, and many of their features support functional programming and aspect-oriented programming (including metaprogramming and metaobjects).

3. Is **Python** case sensitive when dealing with identifiers?

Ans:**Yes, Python is a case-sensitive language**, i.e., it treats uppercase and lowercase characters differently. This applies to identifiers too. You must avoid using the same name with different cases while naming identifiers.

4. **What** is the correct extension of the Python file?

Ans : Python is a widely used programming or coding language used for different purposes. The extensions for Python files are - .py, .pyi, .pyc, .pyd, .pyo, .pyw, and .pyz.

5. Is Python **code compiled** or interpreted**?**

Ans: Python is an interpreted language, which means the source code of a Python program is converted into bytecode that is then executed by the Python virtual machine. Python is different from major compiled languages, such as C and C + +, as Python code is not required to be built and linked like code for these languages.

6. Name a few blocks of code used to define **in Python** language**?**

Ans: Indentation is used to define a block of code in python. Braces {} are used to define a block of code in most programming languages, like C, C++, and Java. But this indentation makes python unique among all programming languages.

7. State a **character** used to give single-line comments in **Python?**

Ans: Python offers a pretty simple and straightforward way to write a comment. We can write a single-line comment by adding a single # character before any statement or line of code.

8. Mention functions which can **help** us to **find** the version **of python** that we are currently working on?

Ans:The function **sys. version** can help us to find the version of python that we are currently working on.

9. Python supports the creation of anonymous functions at runtime, using a construct called

Ans :**"lambda"**.

10. **What** does **pip** stand **for python**?

Ans : preferred installer program

11. Mention **a** few built-**in** functions in python?

Ans :print( ) function.
- type( ) function.
- input( ) function.
- abs( ) function.
- pow( ) function.
- dir( ) function.
- sorted( ) function.

- max( ) function.

12. **What is** the maximum possible length **of** an identifier **in Python?**

Ans : An identifier can have a maximum length of 79 characters in Python. Python is one of the most popular programming languages.

13. What are the benefits of **using Python**?

Ans : There are a plethora of benefits to developing software in the Python programming language. We will highlight the major benefits below, with a brief explanation of the advantages of choosing Python for each one.

14. How **is** memory managed **in** Python**?**

Ans :Memory management in Python involves a private heap containing all Python objects and data structures. The management of this private heap is ensured internally by the Python memory manager.

15. **How** to install **Python** on Windows **and** set **path** variables? 16. Is indentation **required in python?**

Ans :If you wish to stick with the previous version of Python, you may apply the steps below to manually add Python to Windows path. First, navigate to the Windows Environment Variables screen (where you can add/edit your paths):

- **Press the Windows Key + R on your keyboard in order to open the Run dialog box**
- **Type sysdm.cpl to open the System Properties**
- **Go to the Advanced tab and then click on the 'Environment Variables…'**

That should take you to the Environment Variables screen, where you can add/edit your paths.

Under the User variables box, click on 'New…' to add the 'Path' variable (note that if your 'Path' variable already exists, then click on 'Edit…'

instead):

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