PYTHON

Assignment Questions

SKILLS

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Assignment Questions

1. Who developed Python Programming Language?

Answer: Python was developed by Guido van Rossum.

2. Which type of Programming does Python support?

Python supports both procedural and object-oriented programming.

3. Is Python case sensitive when dealing with identifiers?

Yes, Python is case-sensitive when dealing with identifiers.

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

The correct extension for a Python file is ".py".

5. Is Python code compiled or interpreted?

Python code is interpreted, but there is an intermediate step where the Python code is compiled into bytecode before execution.

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

Function blocks: Indentation under a function definition.

Loop and conditional blocks: Indentation under for, while, if, etc.

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

The character "#" is used to indicate a single-line comment in Python. Anything following "#" on a line is considered a comment and is ignored during execution.

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

sys module provides a function for this purpose:

* sys.version or sys.version\_info

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

Lambda functions. Lambda functions are created using the lambda keyword.

10. What does pip stand for python?

PIP stands for "Pip Installs Packages."

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

* len(): Returns the length of an object.
* print(): Prints the specified message or object.
* type(): Returns the type of an object.
* int(), float(), str(): Convert a value to an integer, float, or string, respectively.
* list(), tuple(), set(), dict(): Create lists, tuples, sets, and

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

The maximum possible length of an identifier in Python is unlimited.

13. What are the benefits of using Python?

* Readability: Python code is easy to read and write, enhancing productivity.
* Versatility: Supports multiple programming paradigms.
* Extensive Libraries: A rich set of libraries and frameworks for various applications.
* Community Support: Large and active community for support and resources.
* Portability: Runs on various platforms without modification.

14. How is memory managed in Python?

Python uses a private heap space to manage memory. The memory manager takes care of allocating and deallocating memory.

15. How to install Python on Windows and set path variables?

* Download the Python installer from the official website.
* Run the installer, ensuring the option "Add Python to PATH" is selected.
* Follow the installation steps.
* To check the installation, open a command prompt and type python --version.

16. Is indentation required in python?

Yes, indentation is required in Python. It is not just for readability; it defines the structure of the code. Blocks of code are defined by indentation levels.