PYTHON

Assignment Questions

SKILLS

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1) Who developed Python Programming Language?

   Ans: Python Programming Language was developed by Dutch Programmer, Guido van Rossum.

2) Which type of Programming does Python support?

   Ans: Python Supports Object-Oriented, Structured, and Functional Programming.

3) Is Python case-sensitive when dealing with identifiers?

   Ans: Yes, It is case-sensitive while dealing with identifiers.

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

   Ans: The correct extension of the Python file is ".py".

5) Is Python code compiled or interpreted?

   Ans: Since Python is Interpreted Language so its code is interpreted.

6) Name a few blocks of code used to define in Python Language.

   Ans: Here it is,

   ```
   i = 1
   while i < 5:
   print
   ```

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

   Ans: A single character "#" followed by the comments is used to give a single-line comment in Python.

8) Mention functions that can help us to find the version of Python that we are currently working on.

Ans: There are many methods to find a version of Python used. The function, “python_version()”, is one of the methods.

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

Ans: lambda.

10) What does pip stand for in Python?

Ans: Pip is Python packages management system that helps to install and manages python software packages.

11) Mention a few built-in functions in Python.

Ans: print(, python_version(), bool(), int() etc are built-function in Python.

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

Ans: An identifier can have a maximum of 79 characters in Python.

13) What are the benefits of using Python?

Ans: Python is open-source software that helps to write programs, is used in web development, and is used by data scientists.

14) How is memory managed in Python?

Ans: Memory in Python is managed by Python’s private heap space. All Python objects and data structures are located in a private heap. This private heap is taken care of by Python Interpreter itself, and a programmer doesn't have access to this private heap.

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

Ans: Here are the steps to be followed to install Python on Windows and set path variables.

1. Go to the official Python website (https://www.python.org/downloads/) and download the latest version of Python for Windows.
2. Run the installer and follow the instructions to install Python on your computer. Make sure to select the option to add Python to your system path during the installation process.
3. Once the installation is complete, open the Command Prompt by pressing the Windows key + R and typing "cmd" in the Run dialog box. Press Enter to open the Command Prompt.
4. Type "python" in the Command Prompt and press Enter. If Python is installed correctly, you should see the Python version number and the Python prompt ">>>".
5. To set the path variables, right-click on the "This PC" icon and select "Properties". Click on "Advanced system settings" in the left-hand menu, then click on the "Environment Variables" button.
6. In the "System Variables" section, scroll down and find the "Path" variable. Click on "Edit" and add the path to the Python installation directory (e.g. C:\PythonXX, where XX is the version number) to the list of paths.
7. Click "OK" to save the changes and close the Environment Variables window.
8. To confirm that the path variables have been set correctly, open a new Command Prompt window and type "python". If Python starts up correctly, then the path variables have been set up correctly.

16) Is indentation required in Python?

Ans: Yes, it requires an indentation. It helps to highlight the block of code.