**PYTHON**

**Assignment Questions**

1. **Who** developed **Python** Programming Language?  
   Ans:- Guido van Rossum

Python is a popular programming language. It was created by **Guido van Rossum**, and released in 1991.

1. **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).

1. 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.

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

Ans:- .py

1. 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.

1. 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.

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

Ans:- **Hash character(#)** is used to comment the line in the Python program. Comments does not have to be text to explain the code, it can also be used to prevent Python from executing code.

1. 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.

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

Ans:- Python supports to make anonymous functions which are not bound to a name(@ runtime). It uses a construct called "**lambda**".

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

Ans:- preferred installer program

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

* print( ) function
* type( ) function
* input( ) function
* abs( ) function
* pow( ) function
* dir( ) function
* sorted( ) function
* max( ) function
* round( ) function
* divmod( ) function
* id( ) function
* ord( ) function
* len( ) function
* sum( ) function
* help( ) function

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

**Ans:-** 79 characters

1. What are the benefits of **using Python**?
2. Easy to Learn and Use
3. Mature and Supportive Python Community
4. Support from Renowned Corporate Sponsors
5. Hundreds of Python Libraries and Frameworks
6. Versatility, Efficiency, Reliability, and Speed
7. Big data, Machine Learning and Cloud Computing
8. First-choice Language
9. The Flexibility of Python Language
10. Use of python in academics

10.  It is interpreted

1. 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.

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

Ans:- In the section entitled User Variables, double-click on the entry that says Path. Another window will pop up showing a list of paths. Click the New button and paste the path to your Python executable there. Once that's inserted, select your newly added path and click the Move Up button until it's at the top.

1. Is indentation **required in python?**

Ans:- Indentation refers to the spaces at the beginning of a code line. Where in other programming languages the indentation in code is for readability only, **the indentation in Python is very important**. Python uses indentation to indicate a block of code.

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**Assignment Questions**

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