

Assignment - 1

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- 1) What is python language?
- python is an interpreted, high-level, general-purpose programming language. Created by Guido van Rossum and first released in 1991.
- It emphasizes code readability.

- 2) What are the key features of python?

→ Features of python are :

- Easy to learn and use
- Expressive language
- Interpreted language
- Cross-platform language
- Free and open source
- Object-oriented language
- Extensible
- Portable
- Embedded

- 3) How is python an interpreted language?

→ Python is called an interpreted language because it goes through an interpreter, which turns code you write into the language understood by

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your computer's processor.

4) How is python memory managed?

→ 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.

5) What is python path?

→ pythonpath is an environment variable which you can set to add additional directories where python will look for modules and packages.

6) What are the generators in python?

→ Generators are used to create iterators but with a different approach. Generator are simple functions which return an iterable set of items, one at a time, in a special way.

• When a iteration over a set of item starts using the for statement, the



generator is run.

7) Does python have oops concepts?

→ Yes! Python is an object-oriented programming language ... along with the object oriented programming features such as inheritance, polymorphism, abstraction, encapsulation.

8) Is python case sensitive?

→ Yes! Python is a case-sensitive language. This means, variable ~~and~~ names are case sensitive. Python is dynamically typed, which means you don't need to declare what type each variable is.

9) How long can an identifier be in python?

→ Identifiers are unlimited in length. But you'll be violating PEP-8 most likely, which is not really cool. Limit all lines to a maximum of 79 characters.

10) With python, how do you find out which directory you are currently in?

→ We use the `getcwd()` method to find out

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which directory in python you are currently in. Cwd is for current working directory in python. This results the path of the current python directory as a string in python.