

Assignment

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1) what is Python language?

① Python is an interpreted, high-level, general purpose programming language.

* created by Guido van Rossum and first released in 1991.

* Python's design philosophy emphasize code readability with its notable use of significant white space.

② what are the key features of Python?

* Easy to learn and use

* Expressive language

* interpreted language

* Cross-platform language.

* Free and open source

* Extensible

* large standard library

③ How is Python an interpreted language?

④ Python is called an interpreted language because it goes through an interpreter, which turns code. You write into the language understood by your computer's processor.

⑤ How is memory managed in Python?

⑥ 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.

⑦ What is Python Path?

⑧ Python Path is an environment variable which you can set to add ~~directories~~ directory where Python knows will look for modules and packages.

Python knows where to find its standard library for most installations, you should not set

these variables since they are not needed for Python to run.

⑥ What are the generators in Python?

⑧ Generators are used to create iterators, but with a different approach. Generators are simple functions which return an iterable set of items, one at a time, in a special way.

⑦ Does Python have oops concept?

⑧ Python oops concept. 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?

⑧ Python is a case-sensitive language. This means, variable and Variable are not the same. Always give the identifiers a name that makes sense.

⑨ How long can an identifier be in Python?

⑩ Identifiers and keywords from the Python language reference, identifiers are unlimited in length. But you will be violating PEP-8 most likely, which is not really cool: limit all lines to a maximum of "79 characters".

⑪ With Python, how do you find out which directory you are currently in.

⑫ We use the "getcwd()" method.

Cwd is for current working directory in Python. This returns the path of the current Python directory as a string in Python.