

19-06-20

1) What are the datatypes in python? Explain

(i) Numbers: It store numeric values.

number objects are created when you assign a value to them.

(ii) Strings: "python allows either pair of single or double quotes." It is a contiguous set of characters represented in b/w " ".

(iii) List: Lists are the most versatile of python's compound data type. enclosed within square brackets.

(iv) Tuples: A tuple is another sequence data type that is similar to list. Tuples are enclosed within parenthesis.

(v) Dictionary: python's dictionaries are kind of hash-table type. enclosed within curly braces.

2) Briefly explain history of python.

In the late 1980s, history was about to be written. It was that time when working on python started. Soon after that, Guido Van Rossum began doing its

application based work in December of 1989 by at Centrum Wiskunde & Informatica (CWZ) which is situated in Netherlands. It was started firstly as a hobby project because he was looking for an interesting project to keep him occupied during Christmas.

For quite some time he used to work for Google, but currently he is working at Dropbox. The language was finally released in 1991.

3. Explain all the operators in python.

- > The operators $+$, $-$, $*$, $/$, and $**$ perform addition, subtraction, multiplication, division, and exponentiation,
- > $//$ is quotient operator. (~~modulus~~)
- > $%$ is modulus operator gives us an remainder.
- > $\#$ This operator works as comment

4. Explain the Features of python.

- Simple
- Easy to learn
- Free and open source
- Higher-level language
- portable
- Interactive
- Interpreted
- object oriented
- Extensible

5. Justify why python is interactive interpreted language?

→ Unlike C/C++ etc, python is an interpreted object oriented programming language. Unlike C language.

→ which is a compiled programming language.

→ The compiler translates the whole code in one-go rather than line-by-line. This is the reason why in C language, all the errors are listed during compilation only.