Python check version

python

python –V

python --version

import sys

print(sys.version)

python location

where python

designed by

Guido van Rossum in 1991 and developed by Python Software Foundation

|  |  |  |
| --- | --- | --- |
|  | Python2 | Python 3 |
| 1 | Division of integers always return integer  5/2 = 2 | Division of integers may result in float  5/2 = 2.5 |
| 2 | Print function brackets optional  print 'Hello, Geeks' | Print() function brackets compulsory  print('Hope You like it') |
| 3 | Prefix string with u to make Unicode strings.  Default was ASCII | String is Unicode by default |
| 4 | xrange()  returns the xrange object | range()  returns the list |
| 5 |  | as |
| 6 |  | 2to3 |
| 7 | Generator.next() | Next(generator) |
|  | Raw\_input() reads string | removed |

Feature of python

1. Free and Open Source
2. Easy to code
3. Easy to Read
4. Easy to Debug
5. Object-Oriented Language
6. High-Level Language
7. Portable, cross-platform programming language
8. Interpreted Language
9. Large Standard Library
10. Dynamically Typed Language
11. Allocating Memory Dynamically
12. Integrated language, Embeddable
13. Extensible feature
14. Frontend and backend development
15. GUI Programming Support

threads, exceptions

# Data Types

OOPs

Types of variable

Instance variable

Class variable

Types of methods

Instance method

Class method

Static method

|  |  |
| --- | --- |
| Scripting Language | Programming Language |
| All scripting languages can be used as programming languages but vice versa is not true |  |
| scripting languages are not compiled, they are interpreted |  |
| A scripting language is a programming language designed specifically for runtime environments. |  |
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