**Python**

**Python** is a general-purpose interpreted, interactive, object-oriented, and high-level programming language.

Note: In computer software, a **general**-**purpose programming language** is a **programming language** designed to be used for writing software in the widest variety of application domains

Note: A high-level language (HLL) is a programming language that enables a programmer to write programs that are more or less independent of a particular type of computer.

Note: An **interpreted language** is a type of **programming language** for which most of its implementations execute instructions directly and freely, without previously compiling a program into machine-**language** instructions.

Note: Interactive programming is the procedure of writing parts of a program while it is already active. This focuses on the program text as the main interface for a running process, rather than an interactive application, where the program is designed in development cycles and used thereafter.

Note: **Object**-**Oriented Programming** or OOPs refers to **languages** that uses **objects** in **programming**. ... The main aim of **OOP** is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.

**Python** is used for developing desktop GUI applications, websites and web applications.

Created by Guido van Rossum and first released in 1991, Python's design philosophy emphasizes code readability with its notable use of significant whitespace.

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**Installation of Python on mac OS:**

1. **Check is Python is already installed?**

Terminal > python – -version

python3 --version // to check for python3

1. **Download and install latest version @ the time of installation**

[ Python 3.8.2]

1. **Check is installation is proper**

python3 --version

pip3 --version

Note:

pip – package manager for Python.

If pip is not installed with Python then run

sudo easy\_install pip

to get location of python3 : which python3

1. **To uninstall Python:**

* Go to file finder
* Provide the location of Python
* Delete the folder

**PyCharm:**

PyCharm is an integrated development environment used in computer programming, specifically for the Python language.

It is developed by the Czech company JetBrains.

Note:

***An IDE is a software suite that consolidates basic tools required to write and test software.***

**Download PyCharm:**

<https://www.jetbrains.com/pycharm/download/#section=mac>

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