



Python Session Summary 11-06-2023

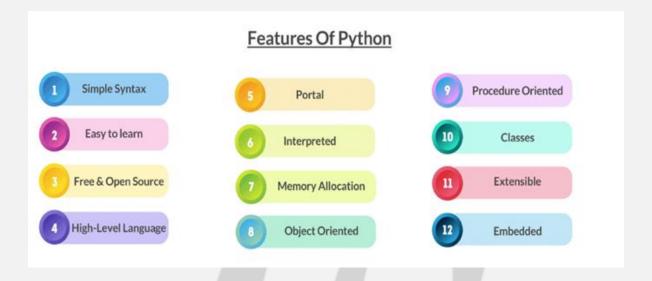
• What is Python?

- > Python is a computer programming language.
- ➤ Python is an interpreted, object-oriented, high-level programming language with dynamic semantics.
- ➤ Its high-level built in data structures.

• The Use case of Python programming language:



• Feature of Python Programming language:



• Why Python

So if some are still confused as to why Python then here is the reason!

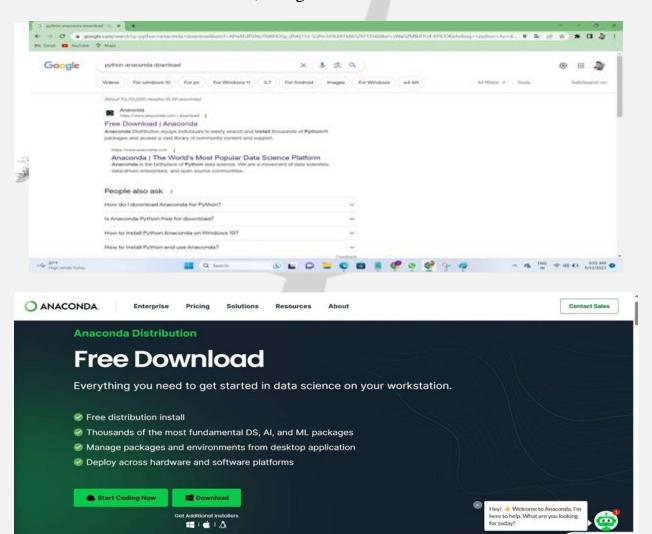
- ➤ Works on different Windows, Mac, Linux, etc.
- ➤ Has simple syntax similar to the English language
- ➤ Has syntax that allows developers to write programs with fewer lines than some other programming language.
- ➤ Run on an interpreter system, i.e. that code can be executed as soon as it is written meaning that prototyping can be very quick.
- ➤ It can be treated in a procedural way, an object-oriented way, or a function way.

• How to Install Python Using Anaconda.

➤ Go to Search Engine and Search

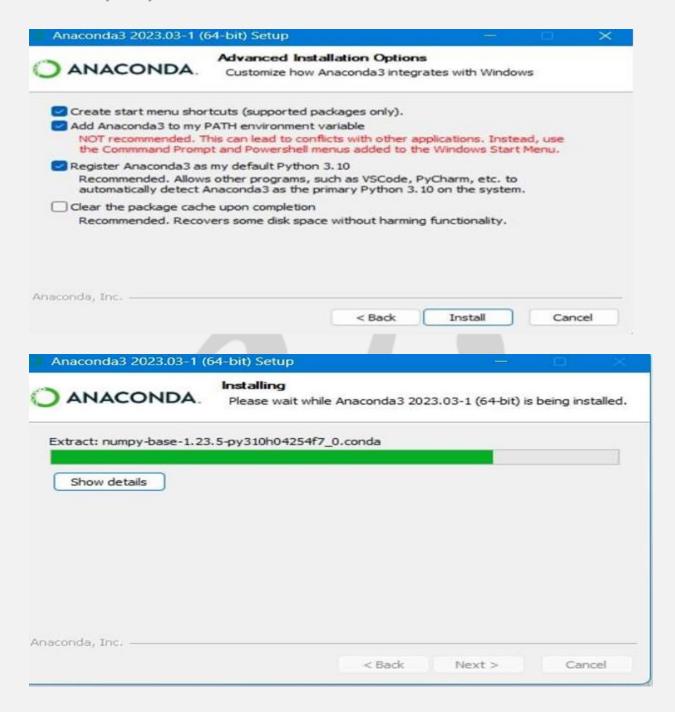


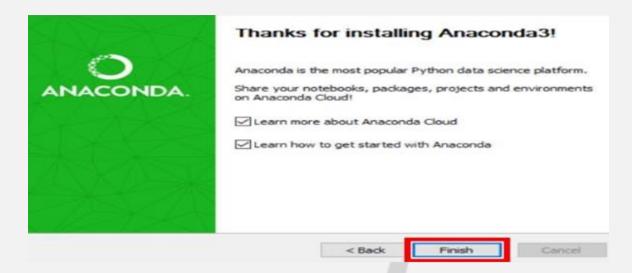
➤ On the Anaconda website, navigate to the "Download" section



➤ Once the download is complete, locate the downloaded installer file and double-click the downloaded file.







• Anaconda Download After open Command Prompt:

```
Microsoft Windows [Version 18.8.22621.1778]

(c) Microsoft Corporation. All rights reserved.

C:\Users\singh>Python -V
Python 3.11.3

C:\Users\singh>Python
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.

>>> |
```

```
Microsoft Windows [Version 10.0.22621.1778]
(c) Microsoft Corporation. All rights reserved.

C:\Users\singh>Python -V
Python 3.11.3

C:\Users\singh>Python
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.

>>> x

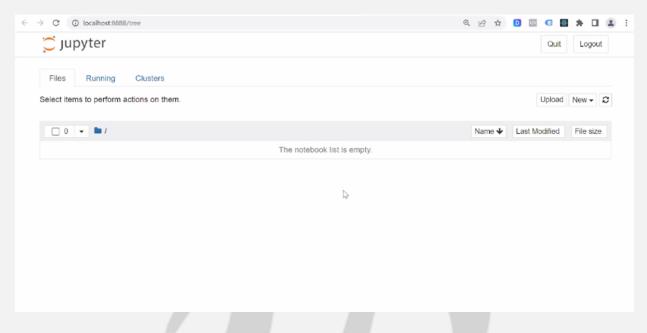
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
NameError: name 'x' is not defined
>>> 5

>>> >> > 5

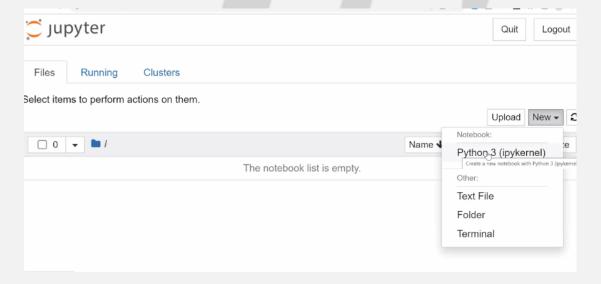
>>> Print("Hi")
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
NameError: name 'Print' is not defined. Did you mean: 'print'?
>>> print("Hi")
hi >>> exit()

C:\Users\singh>
```

• Open a jupyter notebook.



• Open Python file



Variables

- ➤ A Python variable is a symbolic name that is a reference or pointer to an object.
- ➤ Once an object is assigned to a variable, you can refer to the object by that name.

➤ But the data itself is still contained within the object.

• Lists

- > Python knows a number of compound data types, used to group together other values.
- ➤ The most versatile is the list, which can be written as a list of commaseparated values (items) between square brackets.
- ➤ Lists might contain items of different types, but usually the items all have the same type

• All other built-in sequence types, lists can be indexed and sliced

```
In [18]: lst = [ 11,2,33,45,49 ]
In [19]: lst[0]
Out[19]: 11
In [20]: lst[4]
Out[20]: 49
```

