Python

* Developed in 1990.
* High Level Programming **language ( Human Friendly).**
* Is Python Compiled Language or Interpreted **language.**
* Compiled
* Interpreted
* [﻿docs.python.org/3/](https://docs.python.org/3/)
* Version Py 2.7 -> not used, support for the 2.7 is alos finished. / end
* Python 3.x -> x anything -> 3.21, right x 12.4
* Python 3.8 IS GOOD. (new amazing )

**How to install the PyTHON**

1. Download and install
2. PyCharm Community Edition.
3. git.exe not found -> [﻿git-scm.com/downloads](https://git-scm.com/downloads)
4. [﻿resources.jetbrains.com/storage/products/pycharm/docs/PyCharm\_ReferenceCard.pdf](https://resources.jetbrains.com/storage/products/pycharm/docs/PyCharm_ReferenceCard.pdf)

**Python**

* Installed the Pycharm
  + PyCharm Community Edition[﻿https://www.jetbrains.com/pycharm/download/](https://www.jetbrains.com/pycharm/download/)
  + Community Edition is FREE and open Source.
* Git is installed -
  + git.exe is not found - [﻿https://git-scm.com/downloads](https://git-scm.com/downloads)
  + Restart your system
  + in the CMD - python ---version
  + Python > 3.8 ( 3.12.5)

**Commands Python**

* # This is comment - This code will not be executed
* Select the file and Reformat the code
* print()
  + sep=' ' - How you want to seperate the arguments
  + end='\n' - in the end what you want to do

**📕 Keywords & Identifiers**

* Keywords are also called Reserved Words.
* All the keywords can be in Lower Case or Upper Case.
* We **cannot** use a keyword as a **variable name**, **function name** or any other identifier.
* keywords are case-sensitive.

**VARAIBLE and Data Types**

**age = 65**

variable name = variable value

**Create a VARAIBLE**

1. Type of the Container -> Data Type -> int
2. Name of container - Variable Name -> age
3. Value stored into the container - Variable value - 65

**Python Data Types**

1. Numeric - Data types
   1. **int** -> integer whole number e.g -1, -2, -4, -1234, 0, 13, 134, 98999, 9876543210
   2. **float** - 3.14 , 18.45, 3.12345678
   3. complex - i - iota - 1+2j (python) j ->. j = root of -1 -> real. 1 anf img 2 -> Where ? Automation no usage
   4. Boolean - True or False -> e.g is\_married = True
2. String Data Type
   1. **str**
   2. bunch of char -> A, L, E, X-> Alex
3. List - [] - (array)
   1. shopping\_list = ["milk","bread","butter","panner"]
   2. my\_10th\_marks = [100,91,93,56,89]
   3. my\_mixed = ["dasda", 123]
4. Advanced Data Type
   1. set, dict, tuple, binary, fronzen set.

age = 65

* # identifier (variable name) = literal ( variable value)
* identifier - Rules
* They start with a letter (A-Z or a-z)
* # An underscore (\_) followed by zero or more letters,
* # Python is case-sensitive
* The range for Int, Float is very large, the python interpreter automatically adjust until it has memory
* Python Learning
  + # -> This is how you add a comment.
  + print() -> it will help you print the message into the console.
  + [﻿resources.jetbrains.com/storage/products/pycharm/docs/PyCharm\_ReferenceCard.pdf](https://resources.jetbrains.com/storage/products/pycharm/docs/PyCharm_ReferenceCard.pdf)