

Session - 9

> pip3 list → It shows the installed library in your system for Python 3.

> pip3 install numpy → for using this command it download numpy library/module from internet

For import & implement Numpy ;

> import numpy

> a = numpy.array(name) → it will change the list into the array as data type

I/O Redirection :

→ Input / Output |

Output → >

STDOUT → >>

Input STDIN → <

Python Libraries ! Python library is a reusable chunk of code that you may want to include in your program

Convert list :- array()
 → If we want to use this funct., we have to load this in some module

function → array()

program file == module → Numpy

Software == Library → Numpy

⇒ In Python we install library using pip command

→ pip3 install numpy

>>> import numpy

>>> name = [["Gautam", 1111, "v@gmail"],
 ["Jack", 2222, "j@gmail"]]

>>> a = numpy.array(name)

>>> type(a)

pip2

pip3

Python 2

Python 3

→ Column can be accessed using

$\Rightarrow a \begin{bmatrix} : & \textcircled{1} \end{bmatrix}$ 1st row
all rows

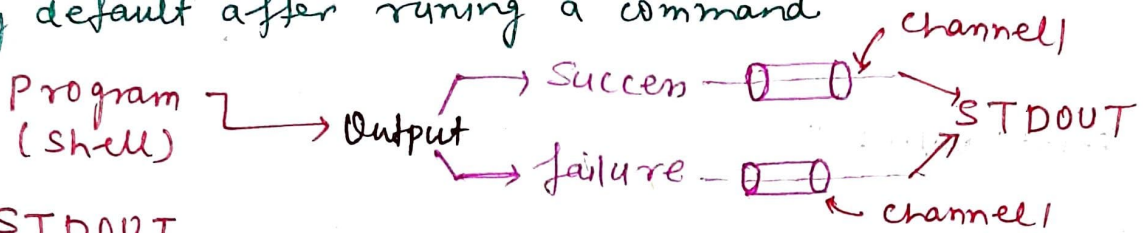
\Rightarrow a $\begin{bmatrix} \vdots & 1:3 \end{bmatrix}$
 \downarrow all rows, 1 & 2 column

→ Numpy library is used to work with array.

Exit code \rightarrow Success \rightarrow 0

→ failure $\rightarrow 1$ or $1/27$

> `echo $?` → will give the exit code of command used
if we use Terminal and run a command we will not get exit code but,
if we use Python Interpreter (KER) we will get exit code by default after running a command



output on screen STDOUT
Success

← failure 2 >

eg. date > format

date 1 > fortet → success

nyz (2) f.txt → failure bcz no. available cmd. (nyz)
↳ will not direct, to file f.txt
- error msg

cmd \rightarrow shell $\begin{matrix} \xrightarrow{1} \\ \xleftarrow{2} \end{matrix}$ 0 $\xrightarrow{\&}$ file

> xyz > f.txt
↳ not valid, so no redirection