Session-7

List

> python3 → Start Python3.
Live Interpreter

```
>>> name = [ "Gautam", " pop", "jack", "harry"]
>>> name        ⟍ output
    ['Gautam', 'pop', 'jack', 'harry']
>>> type(name) → list
>>> name[0]              >>> name[0:3]
    ⟍ Gautam             ⟍ ['Gautam', 'pop', 'jack']
       Index                      Slicing.
```

Visualization table:
index no.	name
0	Gautam
1	pop
2	Jack
3	harry

for create a Table inside list;

```
>>> name = [ ["gautam", 1111], ["pop", 2222], ["jack", 333]
             ["harry" 444]]
```

⟍ This concept in which we create list inside list
to create a table is known as linked list.

for check it work like a Table

```
>>> name[1]              >>> name[1][1]         >>> name[0:2]
    ⟍ ['pop', 2222]          ⟍ 2222                [['Gautam',1111],
                            To see the data inside      ['pop',2222]]
                            list of list
```

Radhat !

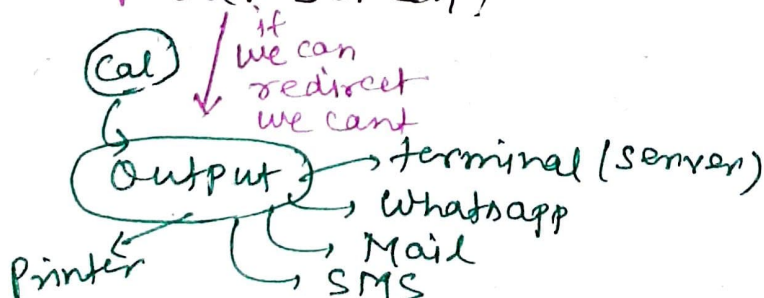**que,** What is the RIGHT use of CAT cmd in linux?

sol Cat only take input & Print as it is.} only for string
                                                    handling

-eg→   cat < my.txt > myl.txt → the data, that store in
                                 my.txt read from cat command.
                                 and transfer or print it into
                                 myl.txt

I/O Redirection & Pipeling

⟍ why we run any command, it shows output on
our screen?

> date → it shows the
         date but before
         print the date it ask to
         computer on which device I
         print output.

> tty→ for check the device
       name

Diagram:
Cal → Output → terminal (server)
             → Whatsapp
             → Mail
             → SMS
Printer

if we can redirect ↓ we cant

For Prove the concept of redirection

Step 1 > Ctrl + Alt + F4 → Open new user terminal

Step 2 > tty → for check the device name.

Step 3 move to your GUI terminal

Step 4 > date > /dev/device name

Step 5 > ctrl + Alt + F4
└→ here you see without coming to this screen or run any command it shows date as output.

(or)

> date (>) a.txt → output of date command is stored in file 'a.txt'

belong to bash shell which transfer data & also create the file

Redirection
└→ I/O Redirection

Input ← → Output

> cat < my.txt > myl.txt
└→ Transfer data from my.txt file to myl.txt

Standard Input
↓ This will
Open (STDIN) for → you

>>> tr 'a-z' 'A-Z'
└→ Translate data from (a-z) to (A-z)
lower → Upper Case
→ For terminate or close.
{ Ctrl + Z or ctrl + C, ctrl + D }