1- History,Installation,CMD

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1 History

1.1 From python we can make –

- Games -
  - Flappy bird using PyGame
  - Snake game using PyGame
- Websites- in backend using Python flask
- GUI (Graphics User Interface)
- Natural Language Processing (speaking to/with machine)
- Print receipt for customers (Payment Calculator)

Python 1	Python 2	Python 3
20 Feb 1991	16 Oct 2000	03 Dec 2008

1.2 Python used in :

- Instagram Backend
- Facebook Custom
- Youtube Custom
- Intel
- IBM
- NASA
- JPMorgan

1.3 Project Example:

- Print Receipt for every client (only required to fill detail then it convert into receipt).

1.4 Developed By:

`Guido Van Rossum`

1.5 Name Script taken from:

`"Monty Python's Flying Circus"` from a BBC comedy series.

1.6 Download:

- Base Interpreter:
  - Python 3.11.0 -> Install
- IDE (Integrated Development Environment):
  - PyCharm (Jetbrains)
    - Professional (Paid)
    - Community (Free) -> Open -> Install

1.7 For Run: Command Prompt/Window PowerShell

python

exit()

pip

(It Shows "No Error")

1.8 How to install External Module:

- Open PowerShell
- Write `"pip install flask"`
- Run python REPL(Run Evaluate Print Loop) by writing `"python"`

python

import flask

(Shows "No Error")

import random

("No Error" - It is Built-in Module)

import pandas

("Error" - Not Found)

exit()

1.9 Important Remarks:

- pip - Package Manager of python
- You can also use another software like - V.S.Code, Sublime Text, Atom.
- Don't use module name as Python file Name like flask,pandas e.t.c
- You can use multiple interpreter like python 3.9, 3.8, 3.7 e.t. simultaneously in Pycharm
- Module:
  - Built in Module - already in python
  - External Module - download from internet

1.10 Run in PowerShell:

python

[ ]:
```
20+56+25
```

[ ]: 101

[ ]:
```
56*10
```

[ ]: 560

[ ]:
```
10*4 + 5*9 + 36*8
```

[ ]: 373

[ ]:
```
36/8     # Float Value
```

[ ]: 4.5

[ ]:
```
25/5    # Float Value
```

[ ]: 5.0

[ ]:
```
25//5    # Int Value
```

[ ]: 5