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Python Overview

What is Python?

Python is a popular programming language. It is developed by **Guido van Rossum**, and released in 1991.

It is used for:

- web development (server-side),
- software development,
- mathematics,
- system scripting.

Python Overview

Why Python?

- Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).
- Python has a simple syntax similar to the English language.
- Python has syntax that allows developers to write programs with fewer lines than some other programming languages.
- Python runs on an interpreter system, meaning that code can be executed as soon as it is written.
- Python can be treated in a procedural way, an object-oriented way or a functional way

Python Installation Steps

- Download python installer from link https://www.Python.org/downloads/
- Download the .tgz file of Python from the above provided download link www.python.org/ftp/python.2.7.11/python-2.7.11.tgz
- Unzip the downloaded file.Tar xvfz Python-2.7.11.tgz
- Go to the directory
 - cd Python-2.7.11
- □ ./configure
- **Build it**.
- □ Make
- Su or sudo su if there is no root user
- □ Make install

How to Install Python 3.3

- Visit: <u>www.python.org</u>
 - Download python for Linux
 - Extract zip file in home
- Open Terminal
 - \$ sudo apt-get install build-essential
 - \$ sudo apt-get install libsqlite3-dev
 - \$ sudo opt-get install libbz2-dev

Go in Python folder

- \$cd python 3.3.2
- \$python 3.3.2 \$./configure
- python 3.3.2 \$ make
- python 3.3.2 \$ sudo make altinstall

- How to write python program
- How to Run python Program?
- Python Indentations (We will see this later)

• How to write python program

Ways of Python Programming

1. Command Line

2. Python IDLE (Integrated Development and

Learning Environment)

Command Line

Steps in windows:

- Press the start button
- Click on All programs and then Python 3.8. After clicking on Python 3.8 you will see a list of options.
- In this list click on Python 3.7. After clicking on it, you will see the python Interactive prompt in python command line.

OR

• Open command prompt and type python (After typing python you will enter in interpreter mode)

Command Line

Steps in Linux:

- Open Terminal
- Type Python (After typing python you will enter in interpreter mode)

• How to write python program

Ways of Python Programming

1. Command Line

2. Python IDLE (Integrated Development and

Learning Environment)

IDLE (Integrated Development and Learning Environment)

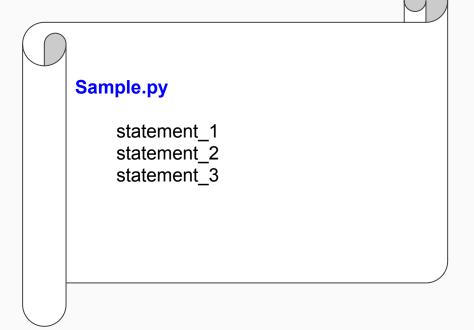
Steps in windows:

- Press the start button or Type Python in search
- Click on IDLE(Python 3.8)
- After clicking on it it will open Python IDLE i.e Python Interactive Prompt
- Click on File
- Click on New. It will open new file there we can type our python Program
- To run press F5. You will get output on interactive prompt.

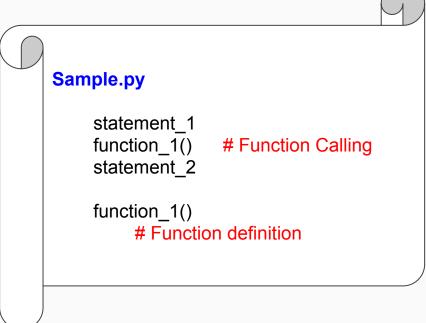
 How to write python program (On Linux OS) Steps to write Python Program (On Linux Platform)

- 1. Open command prompt
- 2. Go in current folder
- **3. Type on command prompt**
 - \$ gedit sample.py OR \$pico sample.py
- 4. Save file (sample.py)
- 5. Run file
 - \$ python sample.py

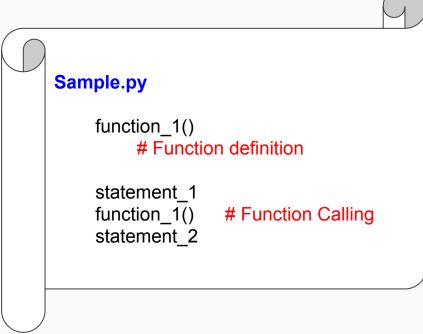
• How to write python program



• How to write python program



• How to write python program



• How to Run python Program?



• How to Run python Program?



