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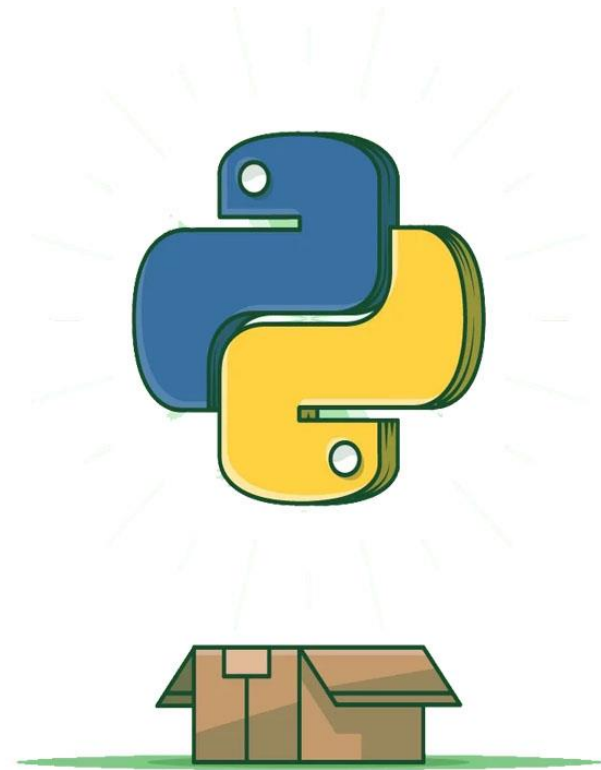
Agenda

- What is Python
- Python Execution Process
- Popular Apps in Python
- About Python
- Features
- Learning Path
- Practical Implementation



What is Python ?

- Python is a general purpose high level Programming language.
- It can be used for :
 - ✓ Console application
 - ✓ Desktop Application
 - ✓ Web Application
 - ✓ Mobile Application
 - ✓ Machine Learning
 - ✓ IOT Application



Console Application:

```
ca c:\Users\sri\Documents\Visual Studio 2008\Projects\HHR_db\Debug\HHR_db
1. Add Patient's Record.
2. Delete Patient's Record.
3. Update/Edit Patient's Record.
4. Display All Patient's Record.
5. View Patient's Record.
6. Print Prescription.
7. Total Number of Patients Admitted.
8. Return to Main Menu.

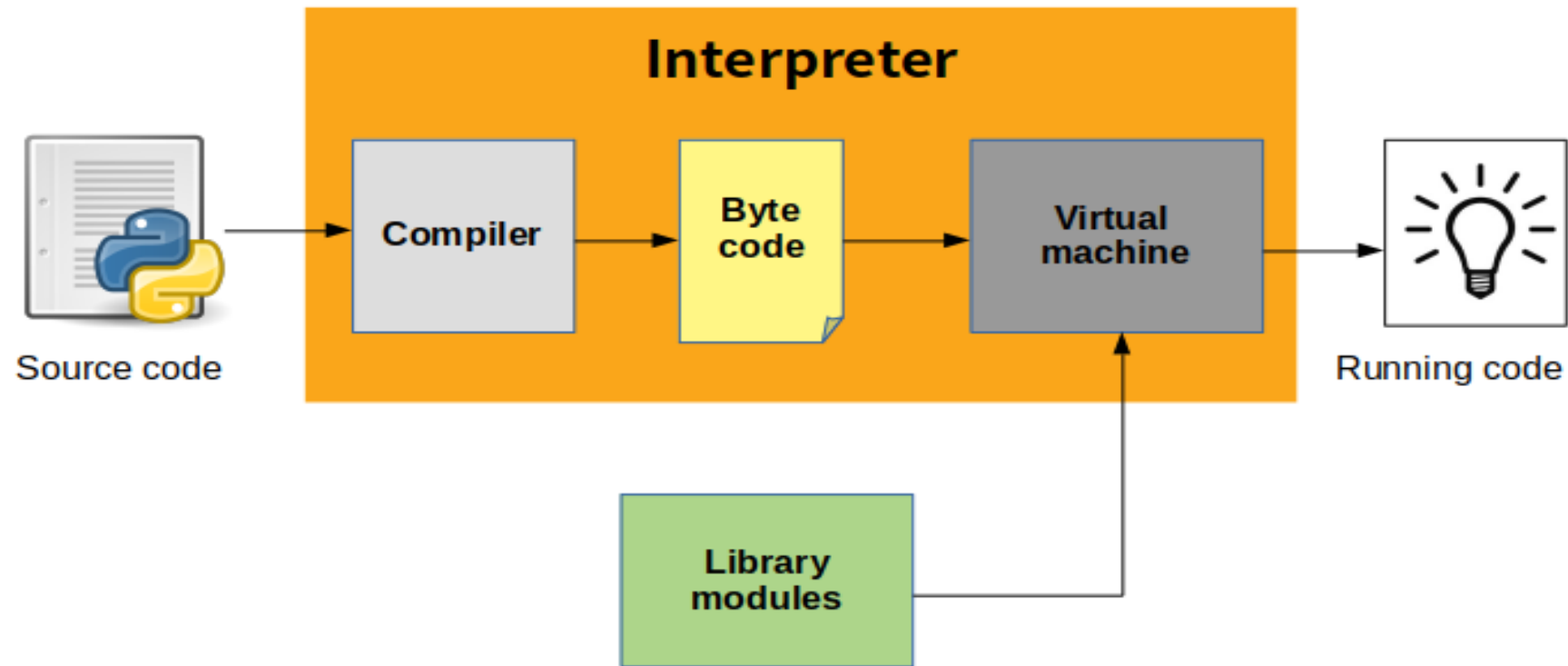
Enter Option: 5
Enter Patients Last Name
3242
Enter Patients First Name
sdad342
No Patients found with that name.
Press any key to continue . . . _
```

Web Application Using Python :

- Job Portals like Indeed , Naukri.com
- Social Media Like FB
- E-Commerce – Amazon , Flipkart, Myntra
- Hotel Booking - Trivago
- Ticket Booking – Book My Show
- Travels Sites
- ERP's
- Olx



Python Execution Process:



Python Execution Process :

- Python doesn't convert its code into machine code, something that hardware can understand.
- It actually converts it into something called byte code. So within python, compilation happens, but it's just not into a machine language.
- It is into byte code and this byte code can't be understood by CPU.
- So we need actually an interpreter called the python virtual machine. The python virtual machine executes the byte codes.

Features Of Python

- Easy to Learn and Use
- Platform Independent
- Free and Open Source
- Python Is Portable
- Extensible
- Automatic Memory Management.
- Dynamically Typed.
- Large Library
- Multi-paradigm Programming Language(Object Oriented, Procedural,etc.)

Library For :

- Graphical User Interface
- Web Frameworks
- Multimedia
- Databases
- Networking
- Test Frameworks
- Automation
- Web Scraping

Library For :

- Documentation
- System Administration
- Scientific Computing
- Text Processing
- Image Processing
- IOT
- Automation
- Web Scraping

History :

- Who ,When, Where and Why
- Python : The Name
- Version History

Python Developer :

Guido van Rossum is a Dutch programmer best known as the author of the Python programming language, for which he was the "**Benevolent dictator for life**" until he stepped down from the position in July 2018. He is currently a member of the Python Steering Council.



When :

- Published in 27th Feb 1991
- Professional Version in 1994

Python : The Name

The inspiration for the name came from **BBC's TV Show – 'Monty Python's Flying Circus'**, as he was a big fan of the TV show and also he wanted a short, unique and slightly mysterious name for his invention and hence he named it **Python!**



Version : History

Version	Release Date
Python 0.9.0	Feb, 1991
Python 1.0	Jan 1994
Python 2.0	October 2000
Python 3.0	03 Dec 2008
Python 3.8.2 (Latest Version)	22 nd Feb 2020

Popular Applications Developed in Python



Career Options with Python :



Career Option with Python

Core Python (Basics)

Python for IOT

Python for AI and Machine
Learning

Python for Data science

WEB APPS with Python

GUI APPS with Python

Python Setup :

- **Latest Version of Python**
- **Editors and IDEs**

Environment Setup:

- **General Editors and IDEs with Python Support**
 - Atom
 - Sublime Text
 - Eclipse
 - Visual Studio
 - Visual Studio Code
- **Python – Specific Editors and IDEs**
 - PyCharm
 - Spyder
 - Thonny

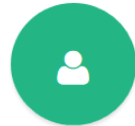
Implementing Code Practically



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