INTRODUCTION TO PYTHON & ENVIRONMENT SET UP

Agenda

- What is python
- Characteristics of python
- Features
- Who uses python
- Releases
- Installation and path set up
- Comments in python
- Python IDLE

What is Python

- Python is a powerful high-level, object-oriented programming language created by Guido van Rossum, released in 1991.
- It has simple easy-to-use syntax, making it the perfect language for someone trying to learn computer programming for the first time.

- Multi-purpose (Web, GUI, Scripting, etc.)
- Object Oriented
- Interpreted
- Strongly typed and Dynamically typed
- Focus on readability and productivity

Features

- A simple language which is easier to learn
- Free and open-source
- Portability
- Extensible and Embeddable
- A high-level, interpreted language
- Large standard libraries to solve common

Who Uses Python

- Google
- PBS(Public Broadcast Service)
- NASA(For Scientific Applications)
- the ONION(America's Finest News Source)

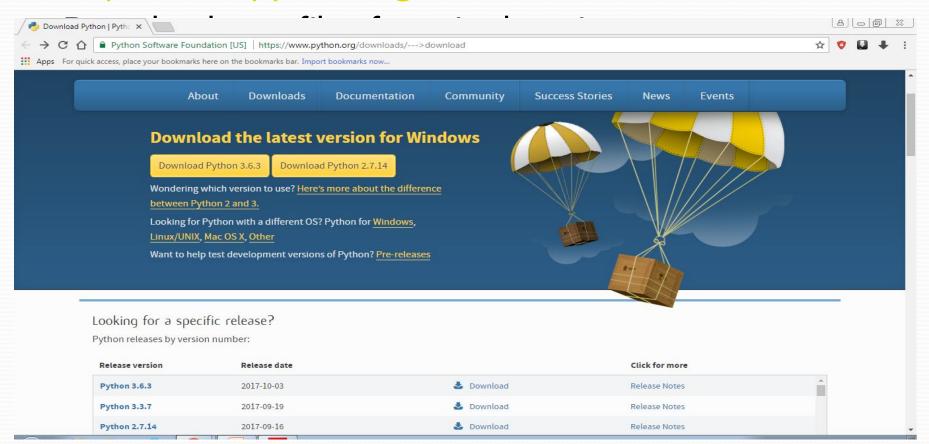
Releases

- Created in 1989 by Guido Van Rossum
- Python 1.0 released in 1994
- Python 2.0 released in 2000
- Python 3.0 released in 2008 etc.
- Python 3.6.3, released in O3 October 2017.

Python Installation

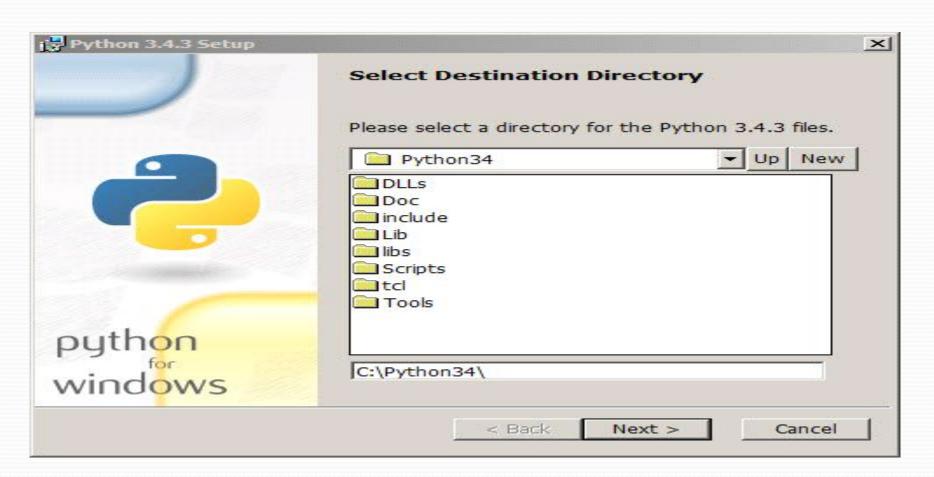
Go Through website

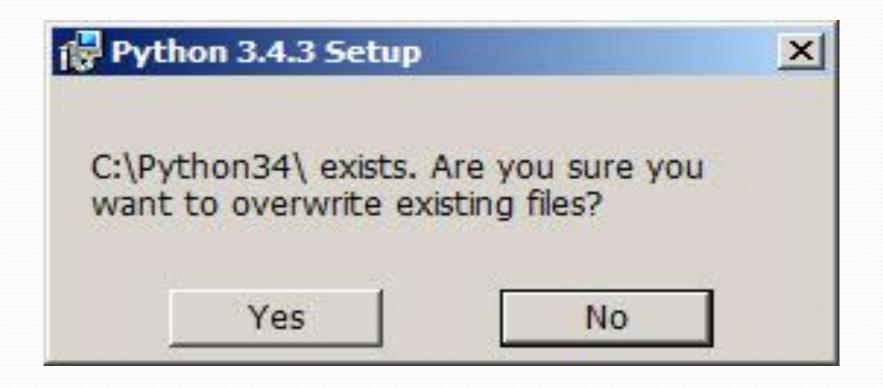
https://www.python.org/downloads/

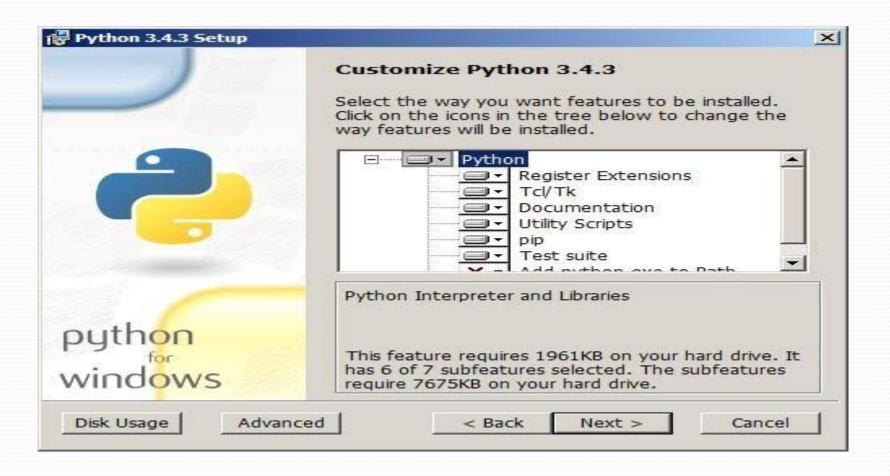


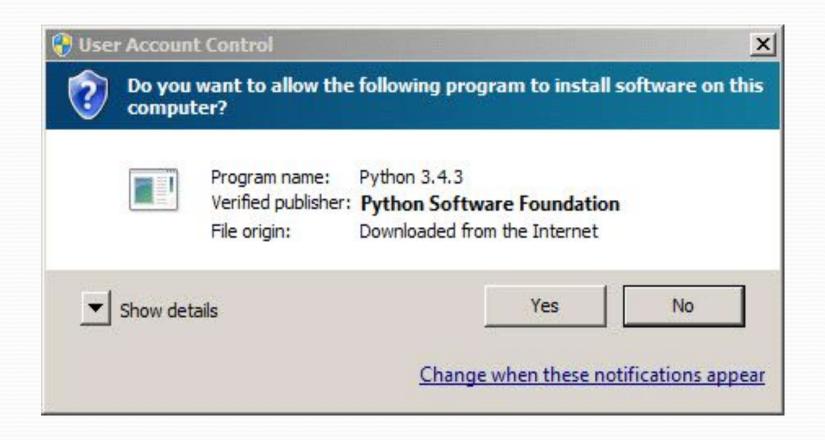


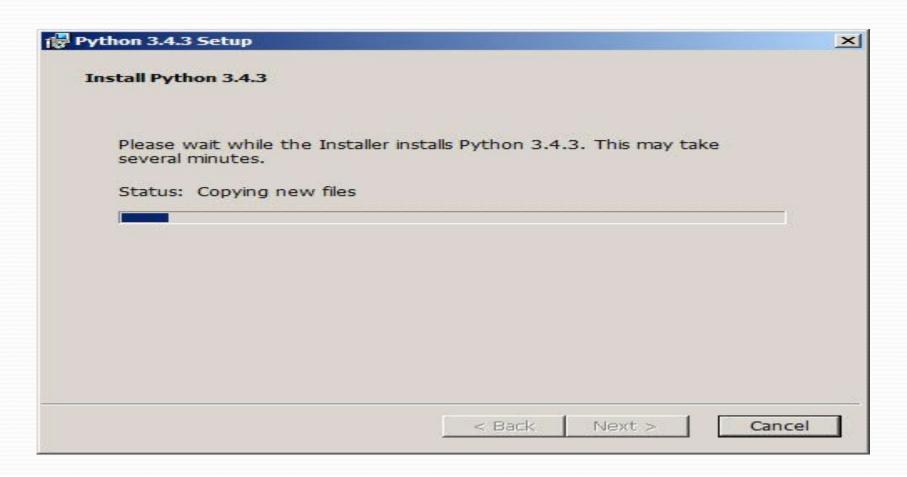


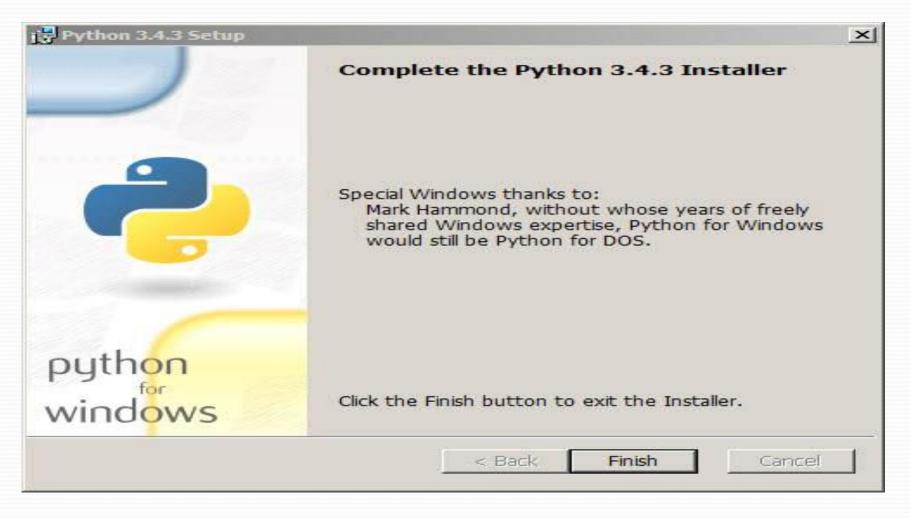






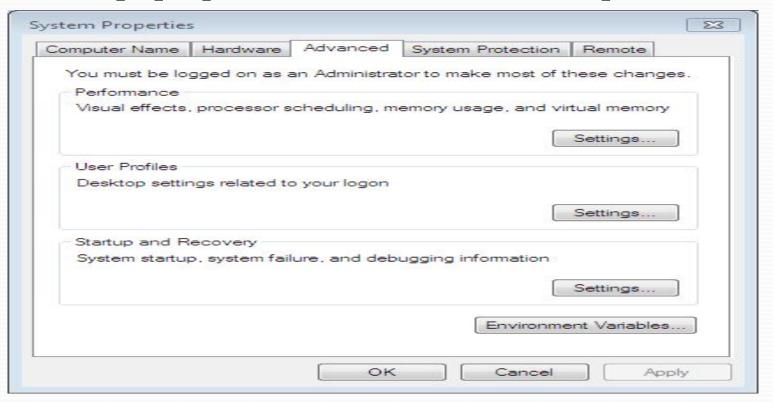




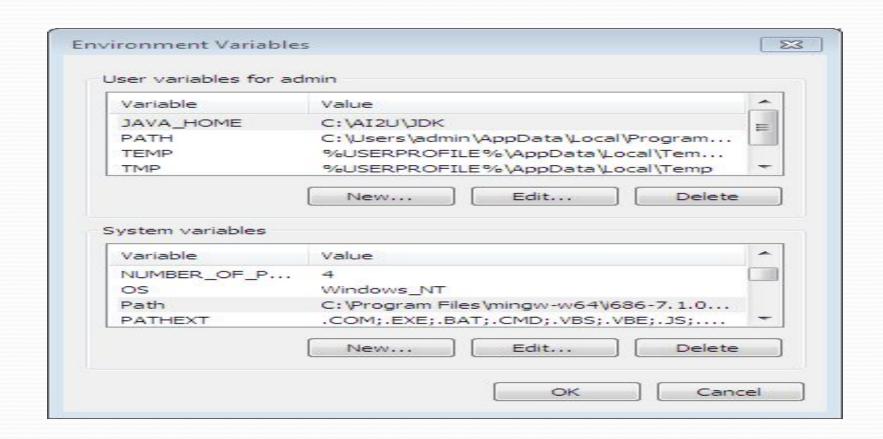


Path Setting for Windows 7

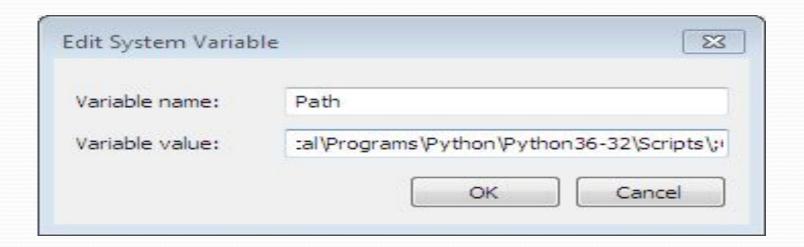
- Computers—Properties—Advanced System Settings
- Then a pop up window like below will open



- Click on Environment variables.
- Under System Variables→Select path→Edit



 Copy the path where python is installed and paste under Edit system variables → variables value and then click ok



Python Shell or IDLE

```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help
Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)]
 on win32
Type "copyright", "credits" or "license()" for more information.
>>> import sys
>>> print(sys.version)
3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)]
>>> 23+12
35
>>>
```

Comments

- Single-line comments are created simply by beginning a line with the hash (#) character, and they are automatically terminated by the end of line
- Comments that span multiple lines used to explain things in more detail – are created by adding a delimiter ("") on each end of the comment.
- "" "" This would be a multiline comment

Using command prompt and GUI or IDE, Applications

```
Command Prompt - python
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.
C:\Users\Ramesh Sai Kumar>python
Python 3.4.4 (v3.4.4:737efcadf5a6, Dec 20 2015, 20:20:57) [MSC v.1600 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> 2+3
 >> 3*7
 >> 888-777
```