Contact Information: Dr. Praveen. K: 9626937934 (praveen.cys@gmail.com)

Python install link: www.python.org

Python Programming can also be done using   https://www.onlinegdb.com/

Lecture 1:

Python Inventor: Guido van Rossum (1989)

Python features:

- Large Standard Library
- Free and Open Source
- Easy to code
- Support for GUI
- Highly Portable (Cross platform i.e. works with windows, linux, macOS etc...)
- Support of Exception handling (Give clue of run time errors)
- Follows Object Oriented (eg: C++) and procedural (eg: C) paradigms
- Interpreted Language.

Python Applications:

1. Python language is being used by almost all techgiant companies like – Google, Amazon, Facebook, Instagram, Dropbox, and Uber… etc.
2. The biggest strength of Python is huge collection of standard library which can be used for the following:
   - Machine Learning (PyTorch)
   - Desktop GUI Applications (Tkinter)
   - Web application frameworks like Django (used by YouTube, Instagram, Dropbox)
   - Image processing (OpenCV, Pillow)
   - Web scraping (Scrapy, BeautifulSoup, Selenium)
   - Scientific computing (SciPy)
   - Text processing and Natural Language Processing (NLTK)
   - Data Science (Pandas, Numpy, Matplotlib etc..)