



1 Online / Offline content

1. The online content of Spoken Tutorials can be accessed from :
<http://spoken-tutorial.org/tutorial-search/>
2. You can also download the Spoken Tutorials for offline learning from :
<http://spoken-tutorial.org/cdcontent/>
3. From this link download the FOSS categories in the language you wish to learn.
4. The Spoken Tutorial content will be downloaded as a zip file on your machine.
5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.
2. You will typically do one tutorial at a time.
3. You may listen to a spoken tutorial and practise by reproducing all the steps shown in the video by **Side-by-Side Method**.
4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

3 Python

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "Python 3.4.3".
2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, ..) in which you wish to learn.
3. Click on "Submit" button.
4. You will see a list of tutorials based on your selection.
5. Start with the first tutorial in the displayed list.

4 First tutorial: Getting started with ipython

1. Locate the topic "Getting started with ipython" and click on it.
2. To view the tutorial, click on the Play icon which is located in the player.
3. The **Pre-requisite** will be visible below the player (only for Online contents).
4. **Outline, Assignments, Code Files and Slides** are available below the player.
5. Adjust the size of the browser in such a way that you are able to practice in parallel.

4.1 Open Python console in Linux OS

1. The tutorials are explained on the Linux OS.
2. It will be easy for Linux users to follow, as instructed on the tutorial.
3. Open the Terminal by pressing CTRL+ALT+T keys together.
4. In the Terminal window, type ipython3.
5. This will open the Python console with ipython preloaded.
6. Now, you can type your commands in the Python console.
7. In the Python scripts, we have used 4 spaces for indentation.
8. We have also used the gedit text editor.
9. You can use any text editor of your choice, for writing the Python scripts.

Note: Please use "python3/ipython3" command wherever the python version is not mentioned explicitly.

4.2 Open Python console in Windows

1. To practise these tutorials on Windows OS, please follow these instructions.
2. For the first 6 tutorials in "Basic Level - C2 Level" use the Start >> All Programs >> ipython >> pylab interactive shell.
3. For "Intermediate Level - C3 Level" tutorials use the Start >> All Programs >> ipython interactive shell.

4. For "Advanced Level - C4 Level" tutorials use Start >> All Programs >> ipython >> scipy interactive shell.

Note: Please use "python3/ipython3" command wherever the python version is not mentioned explicitly

5 Instructions to Practise

1. Create a folder on the "Desktop" with your "Name-RollNo-Component". (Eg. "vin-04-python").
2. Give a unique name to the files you save, so as to recognize it next time. (Eg. "Practice-1-vin").
3. Remember to save all your work in your folder.
4. This will ensure that your files don't get overwritten by someone else.
5. Save your work from time to time, instead of saving it at the end of the task.

5.1 Instructions to Practise for Windows OS users

1. To clear the command prompt, type: **!cls**
2. Please use **!type** instead of **cat** command

5.2 Instructions for Assignments

1. Attempt the Assignments as instructed in the tutorial.
2. Save your work in your folder.

5.3 Instructions to use Code files

1. Click on the link "Code files" located below the player and save it in your folder.

2. Extract the downloaded zip file.
3. You will see all the code/source files used in the particular tutorial.
4. Use these files as per the instructions given in the particular tutorial.
5. Play-pause-practise the whole tutorial.
6. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.
7. Follow all the above instructions, till you complete all the tutorials in the series.

6 Additional instructions for Tutorials.

1. Tutorial - 3 "Embellishing a plot" at 9:31: The `xlim()` function limits in Python 3.4.3 returns values assigned to `x` by `linspace()`. Python 3.6.8 returns slightly broader values.
2. Tutorial - 4 "Saving plots", to open the ***.eps file**, that is for viewing vector graphics, you will need a program like **Inkscape**.
3. Tutorial - 5 "Multiple Plots" at 4:55: The legend in a plot goes to the best position in 3.6.8, but goes to the top-right corner in 3.4.3 by default.
4. Tutorial - 13 "Getting started with for": Python 2.7 interpreter used. But the examples work in Python 3.6.X.
5. Tutorial-14 "Getting started with string": Python 3.4.3 is mentioned but the examples work in Python 3.6.X.