IDE stand for Integrated Development Environment and is basically a software pack that consists of equipment which are used for developing and testing software’s. A developer throughout **Software Development Life Cycle** uses many tools like editors, libraries, compiling and testing platforms.

IDE helps to automate task of developers by reducing manual effort and combing all the equipment in one common framework.

There are several python IDE:

1. **PyScripter** is a free open-source light weight python IDE good for python debugging, code explorer, find and replace files but lack pro version as this time being and advance features may be lacking.
2. **PyCharm** is a widely used IDE created by Jet Brains for professional developers. The professional version is not free, but it does have a free community edition for developers. It comes with intelligent python editor that helps in auto completion, quick fixing, and error detection; it has a rich feature that support cross platform development. On the cons side, PyCharm is very expensive considering the features it provides for client and could be difficult to install at times
3. **Spyder** is another big python IDE developed for scientists and Engineers to provide a powerful scientific environment for python developers. It has a support for extended plugins to improve its functionality and has a powerful debugger tool. On the cons side, its performance are reduced when many plugins are invoked at the same time.
4. **Visual Studio Code** is Integrated Software Development Environments from Microsoft, and it is the IDE I use for my class work and other personal development, and I consider it as the best IDE for any kind of software development with any kind language. It is open source and it support intelliSense, code completion, code refactoring, regular expression, find and replace text. It has extensive and massive plugins support and seamlessly integrate with **Git** and **Cloud computing**.

**Git** is an important software engineering tool that is widely used in the software development enterprise. Git is a software for tracking changes in any set of files, version control tool for coordinating work among programmers and collaboratively developing source code during software development. It supports distributed non-linear workflows among developers.