**Why do we need python for testing?**

1. To generate Test Data
2. To parse test data. For example, convert a XML file from the web service to Excel
3. To generate reports. For example, Get test case pass rate or failure rate
4. To setup test environment.

*For example,*

* *take backup of log files*
* *clear temp space before every execution*
* *check CPU, memory and system status before testing activities*
* *perform administrative tasks*

1. API testing using python and validate response from the server
2. Selenium for web automation

**Python:**

1. Interpreted (no compiler)
2. Interactive – executing single command
3. OOPS
4. Structural as well as OOPS
5. Easy to write code
6. Automatic garbage collection
7. Supports large databases, large set of platforms
8. Has rich set of libraries
9. Platform independent