**3 day class**

**Packages and installations**

1. **What is Packages?**
2. **What is Libraries?**
3. **How to install Packages?**
4. **How to Use the Packages?**
5. **How to Check All Packages Installed in linux ?**
6. **What is Packages?**

**- In Linux, a package refers to a software package that contains all the necessary files, libraries.**

1. **What is Libraries?  
   - In Linux, libraries refer to files containing reusable code or data that other programs can use.**
2. **How to install Packages?  
    - Advanced Packaging Tool(apt)**

* **apt-get install <package\_Name>**
* **Cmd -> apt install <package\_Name>**
* **Package install from github git clone <git link>**
* **Package Install Using wget <link of packages>**
* **Package Install Using pip install <package\_name>**

1. **How to Use the Packages?**

* **Package \_name <file\_name>**
* **Package install from github git clone <git link>**
* **Package Install Using wget <link of packages>**

**Package Install Using pip install <package\_name>**

* apt-get install python
* git clone link
* wget link

1. **How to Check All Packages Installed in linux ?**

* dpkg -l | grep "^ii" | wc –l
* dpkg –list – Debian Package
* -( | ) - (PIPE) symbol is used to redirect the output of the previous cmd to the next cmd as input
* grep “^ii”- search for lines starting with "ii".
* wc –l - count the number of lines in the filtered output