**Day#2:**

**QT Notes**

**Python Revision: File Handling**

.ipynb file: Interactive Python Notebook used by developers to develop & test the code line by line as per required.(Generally used to execute the code line by line)

.py file: python file used by developers to develop the code & deploy.

**Virtual Environment:**

We need to create a virtual environment before the start of the project.

Commands req to create virtual enviro

Step#1:Install Anaconda

Step#2:conda create -n vqt python==3.10 (version)

Step#3:conda activate vqt

import os

# os is built in module for python to interact with operating system

os depending tasks:

**File & Directory Management:**

* os.getcwd() - current working directory
* os.chdir() - change directory
* os.listdir() - lists the directories present in the path
* os.mkdir() - create new directory
* os.makedirs() - creates directories recursively
* os.rmdir() - removes empty directory at path
* os.remove() - deletes a file at path
* os.rename(src,dst) - renames a file or directory from src to dst

**Path Manipulation:**

* os.path.exists() - checks if a path exists
* os.path.join() - joins path components
* os.path.basename() - returns base name of a path
* os.path.dirname() - returns directory name of path
* os.path.abspath() - returns the absolute path

**Process Management:**

* os.system() - executes a shell command
* os.environ() - a mapping object that represents the process environment variables