

23/06

\* What are the challenges during the programming?  
↳ Exception handling [i.e. Syntax error, logical error & runtime error]

→ File Handling :-

The main requirement of file handling is to store data permanently.

We primarily want to know the given, for file handling.

- Create a file
- write data to file
- read data from file
- how to rename the file
- how to delete the file

\* How to create a file -

To make sure let create a new folder namely file handling & in that create new file namely demo1. Save it [blankly]. as empty.

Now let open the file with IDLE. In that

```
file = open("demo.txt", "w")
```

& run it.

It automatically creates a text file in that folder.

Here, we just created a file.

\* Write data to file.

```
file = open("demo.txt", "w")  
file.write("Python")
```

```
file.close()
```

Notes: If file is open, we want to close the file otherwise the changes we made may not apply.

Now run this

→ the written text is now available in demo.txt file.

If we write as follows

```
file.write("Hello")  
file.write("python")
```

then o/p = HelloPython

If we want to get the output in different line we use \n

```
file.write("Hello\n")  
file.write("Python")
```

o/p = Hello

Python.

Let us take new file namely demo2.

```
file = open("demo.txt", "w")  
file.write("chapp's python training")  
file.close()
```

(Run)

[open demo.txt]

o/p:- Dhapps python training.

So here our previous given data has not been getting displayed, it only considering the data of given.

for this type we use append function.

In Demo file, make changes as given

```
file = open("demo.txt", "a")
```

```
file.write("Dhapps python training")
```

```
file.close()
```

Now after running when we open demo text file, the following output is displayed, [these are displayed in notepad]

python

Dhapps python training

\* Read the data.

Let create another file namely demo3

```
file = open("demo.txt", "r")
```

```
data = file.read()
```

```
print(data)
```

o/p:- python

Dhapps python training

```
file = open("demo.txt", "r")
```

```
data = file.read(5)
```

```
print(data)
```

o/p:- pytho



```
file = open("demo.txt", "a")
```

```
data = file.readlines()
```

```
print(data)
```

```
o/p: ['Python\n', 'Dhapps python training']
```

\* Rename

If we want to rename, we have a module name os

```
import os
```

```
os.rename("demo.txt", "file.txt")
```

(run)

If we see in the folders, then we can see a file name file.

\* Remove

If we want to remove

```
import os
```

```
os.remove("file.txt")
```

o/p [run it]

If we see in folder, then file.txt will be removed