Python_o_[Working with files]_[Day 21]_(DATA MINDS)

September 19, 2023

TOPIC - FILE OPERATION [WHAT IS FILE OPERATION , HOW WE READ THE FILE , HOW WE WRITE THE FILE , HOW WE APPEND THE FILE , HOW WE CREATE THE FILE , HOW WE INSERT OR DELETE THE FILE ETC]

[9]:
```python
f=open("test1.txt","w")
```

pwd - pwd stands for the present working directory where we create the file

[10]:
```python
pwd
```

[10]: '/home/jovyan/work'

ls - ls showing the name of file

[11]:
```python
ls
```

```
'Python_o_[Working with files]_[Day 21]_(DATA MINDS).ipynb'    test1.txt
 README.md                                                     test.txt
 sample-code.ipynb
```

[13]:
```python
cd work
```

```
[Errno 2] No such file or directory: 'work'
/home/jovyan/work
```

[14]:
```python
ls
```

```
'Python_o_[Working with files]_[Day 21]_(DATA MINDS).ipynb'    test1.txt
 README.md                                                     test.txt
 sample-code.ipynb
```

[15]:
```python
f.write("Heya I'm Virat Tiwari , Aspiring Data Scientist")
```

[15]: 47

[16]:
```python
f.close()
```

[57]:
```python
f=open("test1.txt","w")
```

```
[58]: f.write("I like Machine Learning but ,")
```

```
[58]: 29
```

```
[59]: f.close()
```

```
[60]: f=open("test1.txt","a")
```

```
[61]: f.write("As I already mentioned that i'm data science enthisiast and try to␣
       ↪deep dive the the field of data science and ifn i;m talking about my dream␣
       ↪comapany of obiously its microsoft and jp morgans as well")
```

```
[61]: 199
```

```
[62]: f.close()
```

```
[63]: f=open("test1.txt","r")
```

```
[55]: f.read()
```

```
[55]: "I like Machine Learning but ,A I already mentioned that i'm data science
      enthisiast and try to deep dive the the field of data science and ifn i;m
      talking about my dream comapany of obiously its microsoft and jp morgans as
      well"
```

IMPORTANT NOTES - :

1) w - w mode trunket the file first , it means it delete previous data or file than add new data or written file

2) a - a mode simply add the new file or text to the previous files , it simply append the data

3) r - r mode is used for reading the file

4) open ( ) - for making new file or writing new file , we uing the open ( ) function

5) write ( ) - we use write ( ) function for writing the data or content inside the file but we can not seen that data inside the file so for this we use close ( ) function after write ( ) function

6) read( ) - we read the file that we created , with the help of read ( ) function

7) close( ) - without using the close ( ) function our file that we write is not seen inside the text file

8) readline( ) - we can easily read data line by line with help of readline ( ) function

9) seek( ) - With the help of seek ( ) function we can set the index from where we want to read the file , like if we want to raed data from 10th index so we set seek as 10 so our seek function read the data from 10th index

10) path.getsize( ) - Before using this function we should install the " os " module after that we use this function.

Basically " path.getsize( ) " help in finding the size of file , by using this function we can check the size of file in a "byte"

11) os.remove ( ) - This function is used for deleting the text file that we created , it remove the file that we created but before removing the file we should " IMPORT OS " module

12) os.rename( ) - We can easily rename the file name with the help of os.rename ( ) function , in which we can replace the previous file name with the new file name

13) shutil.copy - we can copy files by using this function but before using this function we should " IMPORT SHUTIL " module , ex -: shutil.copy("Virat's Bio","copy_Virat's Bio")

```
[64]: f.readline()
```

```
[64]: "I like Machine Learning but ,As I already mentioned that i'm data science
      enthisiast and try to deep dive the the field of data science and ifn i;m
      talking about my dream comapany of obiously its microsoft and jp morgans as
      well"
```

```
[65]: f.seek(0)
```

```
[65]: 0
```

```
[66]: f.readline()
```

```
[66]: "I like Machine Learning but ,As I already mentioned that i'm data science
      enthisiast and try to deep dive the the field of data science and ifn i;m
      talking about my dream comapany of obiously its microsoft and jp morgans as
      well"
```

```
[77]: f.seek(31)
```

```
[77]: 31
```

```
[78]: f.readline()
```

```
[78]: " I already mentioned that i'm data science enthisiast and try to deep dive the
      the field of data science and ifn i;m talking about my dream comapany of
      obiously its microsoft and jp morgans as well"
```

```
[79]: data1=open("test1.txt","r")
```

```
[80]: for i in data1:
          print(i)
```

```
I like Machine Learning but ,As I already mentioned that i'm data science
enthisiast and try to deep dive the the field of data science and ifn i;m
talking about my dream comapany of obiously its microsoft and jp morgans as well
```

```
[81]: import os
```

```
[82]: os.path.getsize("test1.txt")
```

[82]: 228

```
[83]: os.rename("test1.txt","Virat's Bio")
```

```
[84]: import shutil
```

```
[85]: shutil.copy("Virat's Bio","copy_Virat's Bio")
```

[85]: "copy_Virat's Bio"