34. RUNNING NOTES - PANDAS - DATAFRAME - LOADING THE FILES - 02 - APR - 2024.txt

RUNNING NOTES: 02 - APR - 2024

PREVIOUS TOPIC - PANDAS - DATAFRAME - INTRODUCTION
CURRENT TOPIC - PANDAS DATAFRAME - LOADING THE FILES
UPCOMING TOPIC - PANDAS - DATAFRAME - ATTRIBUTES

INDEX

PYTHON PROGRAMMING LANGUAGE

PANDAS

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1. PANDAS - INTRODUCTION - Done
2. PANDAS - SERIES - INTRODUCTION - Done
3. PANDAS - NAN VALUE - Done
4. PANDAS - SERIES - ATTRIBUTES - Done
5. PANDAS - SERIES - MEHTODS - Done
6. PANDAS - DATAFRAME - INTRODUCTION - Done

7. PANDAS - DATAFRAME - Running topic

LOADING DIFFERENT FILES

Name of the Errors

1. SyntaxError
2. NameError
3. KeyError
4. ValueError
5. IndexError

6. TypeError
7. IndentationError
8. AttributeError
9. ModuleNotFoundError
10. FileNotFoundError

11. RecurrsionError

Name of the functions

1. print(p)
2. type(p)
3. range(p)
4. range(start, end)
5. input(p)

6. len(p)

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7. int(p)
8. float(p)
9. bool(p)

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7. PANDAS - DATAFRAME - LOADING DIFFERENT FILES :-
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list -> pandas -> DataFrame
nested list -> pandas -> DataFrame

csv file -> pandas -> DataFrame

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Loading files
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csv file -> DataFrame
json file -> DataFrame
exel file -> DataFrame
....

10, 20, 30 => let us create list

[10, 20, 30]

data => csv file -> pandas loading DataFrame

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www.gmail.com

sign up Database
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FN ....
LN .....
DOB
username
password .....

we can download the data
like csv file
```

```
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important interview discussion :)

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physical file pandas DataFrame
sales.csv

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sales1.csv
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- This is the input file for the program
- having 600 rows and 4 columns

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import pandas as pd

df = pd.read_csv("sales1.csv")

print(df)

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import pandas as pd

df = pd.read_csv("sales1ksdfsfd.csv")

print(df)


output: FileNotFoundError

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csv file location

1. current directory
2. folder
3. it can be existing in Drive

-------------------------------------------------------------------------------------
```

We are using website to transfer money

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www.axisbank.com www.sbibank.com

user name: Daniel father: Jeswanth
password: 12345 sbi account

send: 10000 depo: 10000

json object.....www.sbibank.com

user name: Daniel
password: encripted
send: 10000

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file type how to load returns

csv file df = pd.read_csv("sales1.csv") DataFrame

json file df = pd.read_json("sales1.json") DataFrame

excel file df = pd.read_excel("sales1.xlsx") DataFrame

excel file

While loading excel file, we need to install supporting libraries

pip install xlrd
pip install openxl

Files Syntax Returns?

1. csv file df = pd.read_csv("sales1.csv") DataFrame

2. json file df = pd.read_json("sales1.json") DataFrame

3. excel file df = pd.read_excel("sales1.xlsx") DataFrame

Note: We need to install supporting lib for excel file

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tsv file
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tsv file df = pd.read_table("sales1.tsv") DataFrame

```
import pandas as pd

df = pd.read_table("sales1.tsv")

print(df)
```

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python discussion

keywords -> import, as
package -> pandas
alias name -> pd
object -> df
functions -> read_table(p) having return statement

```
df = pd.read_table("sales1.tsv")
```

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soumya p 7:52 PM
Sir in output why data is stat left to right it any posible to start right to left

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link : https://en.wikipedia.org/wiki/The_World%27s_Billionaires

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Personal project

Human -> brain

-> let me insert small chip

Gitanjali Ashok Nazirkar 8:21 PM
why that … came before??

```
import pandas as pd

url = "https://en.wikipedia.org/wiki/The_World%27s_Billionaires"

a = pd.read_html(url)

print(a[2])

a[2].to_csv("output.csv")
```

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csv file pd.read_csv(file) DataFrame
json file read_json(file) DataFrame
excel file read_excel(file) DataFrame
webpage read_html(file) DataFrame

you data by using pandas
can be we can load DataFrame
any where...

```
import pandas as pd

print(dir(pd))
```

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important interview discussion :)

VERY VERY VERY IMP

While creating python program we should not give predefined names to the files

str.py -> :(
list.py -> :(
pandas.py -> :(

Daily
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1. Running notes -> Sharing
2. Materials (PDF format) -> Sharing

----------Session end-------------------------