Day 20 (29/08/23): (Data Handling (Data Wrangling)):

Raw data: New data extracted from a database.

Internal Library (In-built Modules): Libraries that are already installed within python.

External Library (Packages): Libraries that are needed to be installed from another sources.

PANDAS: It is a python Library.

Purpose of PANDAS: They are used in cleaning, analysing, exploring & manipulating data

#pip → Packages Installer python.

Code in terminal: pip install pandas in terminal

Import pandas: #Never use modules directly, import using 'as' keyword.

Database:

S.no Courses Duration

python 30
 java 45s

3 c++ 25

Code:

Output:

Courses Duration

0 python 30 1 java 45 2 c++ 25

Locate Row:

It is used to extract the data need by the user from the database.

Code:

print(df.loc[0])

Output:

courses python duration 30

Name: 0, dtype: object

#From database (.csv) file: $CSV \rightarrow Comma$ Seperated Value.

Head (10):

Displays the first (5 Row X 10 Column) data from the database

Tail (10):

Displays the last (5 Row X 10 Column) data from the database

Change the arguments in the head or tail functions of database to display accordingly.

Code:

print(df.head(2))

Output:

courses duration 0 python 30 1 java 45

Code:

print(df.tail(2))

Output:

courses duration

1 java 45 2 c++ 25

Remove duplicates:

To remove the Duplicates from the database.

Code:

print(df.drop_duplicates(inplace=True))

Output:

None

Email Sending:

Note: Use google for finding codes to send emails.

Code:

```
#email sending:
print("To send Email:")
for i in df["duration:"]:
   print(i)
   import smtplib
   # creates SMTP session
   s = smtplib.SMTP('smtp.gmail.com', 587)
    # start TLS for security
   s.starttls()
    # Authentication
   s.login("Login Mail ID", "Login mail id password")
    # message to be sent
   message = "Code ran Successfully!!!"
    # sending the mail
    s.sendmail("sender mail id", i , message)
    # terminating the sessione
   s.quit()
```