Name: - Siddhesh Santosh Shinde

PRN:- 202401040176

Roll no .: - CS2-84

Batch:- C24

- Importing The Blog Authorship Corpus Dataset:-
- 1. Display first 5 rows of the dataset

2. Display last 5 rows of the dataset

```
print(df.tail())

id gender age topic sign date \
681279 1713845 male 23 Student Taurus 01, July, 2004
681280 1713845 male 23 Student Taurus 01, July, 2004
681281 1713845 male 23 Student Taurus 01, July, 2004
681282 1713845 male 23 Student Taurus 01, July, 2004
681283 1713845 male 23 Student Taurus 01, July, 2004
681283 1713845 male 23 Student Taurus 01, July, 2004
681280 Dear Susan, I could write some really ...
681280 Dear Susan, I could write some really ...
681281 Dear Susan, You riboyfriend' is fuckin...
681282 Dear Susan: Just to clarify, I am as...
681283 Hey everybody...and Susan, You might a...
```

- 3. Display shape of the dataset
- 4. Display information of the datset

- 5. Describe the dataset
- 6. To find the missing values

- 7. To check for duplicates
- 8. Value counts

- 9. Gender value count
- 10. Mean age
- 11. To check if the gender value count is duplicate
- 12. To see which zodiac signs are most common in your dataset

13. To summarize data quickly without manually filtering.

```
print(df.groupby('topic')['age'].mean())

topic

Accounting

Accounting

Accounting

Abertising

28.48975

Agriculture

21.484211

Architecture

26.715507

Arts

27.13231

Automotive

28.318328

Banking

26.091381

Biotech

22.89164

BusinesServices

27.902899

Chenicals

22.298764

Communications-Media

26.546773

Construction

29.736509

Consulting

28.497100

fducation

29.736509

Consulting

28.497100

fducation

29.295629

frovironment

29.295629

Government

29.295629

Government

29.295629

InvestmentBanking

28.60899

Law

26.612611

Lawfnforcement-Security

Amardacturing

28.638204

Marritime

22.357143

Marketing

27.11784

Military

26.069512

Musums-libraries

29.231589

Non-Profit

29.383867

Rublishing

29.247882

Realistate

26.559939

Religion

27.231589

Religion

27.231589

Religion

27.235166

Science

24.71796

Sports-Recreation

22.222719
```

14. To find how many blog posts (or records) happened on each date

15. To find the duplicate values

- 16. To standardize text
- 17. To pull out month information

- 18. To know what day the records are made.
- 19. To focus only on sensible age groups.

- 20. To calculate the Length of Text
- 21. To extract the Year from the Date

- 22. To find unique IDs
- 23. To finds the most common zodiac sign under the age of 25
- 24. To convert gender into numeric form