#### EXPERIMENT NO: 3(A)

# Pandas library -Create own dataset in CSV format

#### Aim:

To write a Python program to create a dataset using the Pandas library.

## Algorithm:

- 1. Define a dictionary with the relevant fields.
- 2. Convert the dictionary into a Pandas DataFrame.
- 3. Display the DataFrame to verify the structure and contents.
- Perform basic data inspection using functions like .head(), .info(), and .describe().

### Program:

```
[1]: import pandas as pd
                               'Age': [35, 37, 34, 30, 32, 35, 34, 31, 36, 33],
                              'Runs': [12800, 10700, 5500, 5400, 950, 8700, 6500, 400, 7000, 8200],
                              'Wickets': [4, 8, 150, 15, 210, 25, 20, 180, 280, 5],
                               'Batting_Avg': [58.2, 49.8, 37.5, 56.3, 11.4, 44.1, 47.8, 8.6, 35.6, 45.2],
                              'Bowling_Avg': [120.5, 98.2, 29.3, 60.1, 23.5, 42.4, 50.8, 25.1, 31.4, 80.7],
                              'Role': ['Batsman', 'Batsman', 'All-Rounder', 'Batsman', 'Bowler', 
'Batsman', 'Batsman', 'Bowler', 'All-Rounder', 'Batsman']
[3]: df = pd.DataFrame(data)
               print(df)
                | Name | Age | Country | Matches_Played | Runs | Wickets | Name |
                  7 Jasprit Bumrah 31 India
8 Shakib Al Hasan 36 Bangladesh
9 David Warner 33 Australia
                          Batting_Avg Bowling_Avg
                                                 58.2 120.5
49.8 98.2
                                                                                                                       Batsman
                                                                             98.2 Batsman
29.3 All-Rounder
60.1 Batsman
23.5 Bowler
42.4 Batsman
50.8 Batsman
25.1 Bowler
31.4 All-Rounder
80.7 Batsman
                                                  37.5
                                               56.3
                                               44.1
                                              47.8
                                              35.6
[4]: df.to_csv('cricketer_stats.csv', index=False)
```

#### Result:

Thus, the Python program is executed successfully for creating the dataset using Pandas.