

```

import pandas as pd
import numpy as np
!pip install translators --upgrade
import matplotlib.pyplot as plt
%matplotlib inline
import translators as ts
import matplotlib.pyplot as plt
%matplotlib inline

```

```

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/
Collecting translators
  Downloading translators-5.5.5-py3-none-any.whl (32 kB)
Collecting pathos>=0.2.9
  Downloading pathos-0.3.0-py3-none-any.whl (79 kB)
    |████████████████████████████████████████| 79 kB 4.6 MB/s
Collecting cryptography>=38.0.1
  Downloading cryptography-38.0.4-cp36-abi3-manylinux_2_24_x86_64.whl (4.0 MB)
    |████████████████████████████████████████| 4.0 MB 12.9 MB/s
Collecting PyExecJS>=1.5.1
  Downloading PyExecJS-1.5.1.tar.gz (13 kB)
Requirement already satisfied: lxml>=4.9.1 in /usr/local/lib/python3.8/dist-packages
Collecting requests>=2.28.1
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
    |████████████████████████████████████████| 62 kB 336 kB/s
Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.8/dist-packages
Requirement already satisfied: pycparser in /usr/local/lib/python3.8/dist-packages (
Collecting multiprocessing>=0.70.14
  Downloading multiprocessing-0.70.14-py38-none-any.whl (132 kB)
    |████████████████████████████████████████| 132 kB 56.3 MB/s
Collecting ppft>=1.7.6.6
  Downloading ppft-1.7.6.6-py3-none-any.whl (52 kB)
    |████████████████████████████████████████| 52 kB 888 kB/s
Collecting pox>=0.3.2
  Downloading pox-0.3.2-py3-none-any.whl (29 kB)
Requirement already satisfied: dill>=0.3.6 in /usr/local/lib/python3.8/dist-packages
Requirement already satisfied: six>=1.10.0 in /usr/local/lib/python3.8/dist-packages
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.8/dist-packages
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /usr/local/lib/python3.8/dist-packages
Requirement already satisfied: charset-normalizer<3,>=2 in /usr/local/lib/python3.8/dist-packages
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.8/dist-packages
Building wheels for collected packages: PyExecJS
  Building wheel for PyExecJS (setup.py) ... done
  Created wheel for PyExecJS: filename=PyExecJS-1.5.1-py3-none-any.whl size=14596 sha256=
  Stored in directory: /root/.cache/pip/wheels/db/3c/3d/7e9aca234caf6602ae4a4c7b367b
Successfully built PyExecJS
Installing collected packages: ppft, pox, multiprocessing, requests, PyExecJS, pathos,
  Attempting uninstall: requests
    Found existing installation: requests 2.23.0
    Uninstalling requests-2.23.0:
      Successfully uninstalled requests-2.23.0
Successfully installed PyExecJS-1.5.1 cryptography-38.0.4 multiprocessing-0.70.14 pathos-
Using state Nevada server backend.

```

```

df1=pd.read_csv("world_cup_2022_catar.csv",usecols=['stage', 'date', 'pens', 'pens_home_score',
'team_name_home', 'team_name_away', 'team_home_score',

```

```

'team_away_score', 'possession_home', 'possession_away',
'total_shots_home', 'total_shots_away', 'shots_on_target_home',
'shots_on_target_away', 'duels_won_home', 'duels_won_away',
'prediction_team_home_win', 'prediction_draw',
'prediction_team_away_win', 'prediction_quantity', 'location',
'events_list', 'lineup_home', 'lineup_away'], index_col='team_name_away')
df1.head(3)
# df1.columns

```

|                  | stage          | date       | pens  | pens_home_score | pens_away_score | team_ |
|------------------|----------------|------------|-------|-----------------|-----------------|-------|
| team_name_away   |                |            |       |                 |                 |       |
| <b>France</b>    | Quarter-finals | 10/12/2022 | False | False           | False           |       |
| <b>Portugal</b>  | Quarter-finals | 10/12/2022 | False | False           | False           |       |
| <b>Argentina</b> | Quarter-finals | 09/12/2022 | True  | 3               | 4               | N     |

3 rows × 24 columns



```

ustin = [i for i in df1.columns]

for i in ustin:
    print(i)

print("length:", len(ustin))

```

```

stage
date
pens
pens_home_score
pens_away_score
team_name_home
team_home_score
team_away_score
possession_home
possession_away
total_shots_home
total_shots_away
shots_on_target_home
shots_on_target_away
duels_won_home
duels_won_away
prediction_team_home_win
prediction_draw

```

```

prediction_team_away_win
prediction_quantity
location
events_list
lineup_home
lineup_away
length: 24

```

```

matn="apple"
def tarjima(matn):
    return ts.translate_text(matn, from_language='en', to_language='uz')

```

```
tarjima(matn)
```

```
'olma'
```

```

col_name = [tarjima(i.replace('_', ' ')) for i in df1.columns]
col_name

```

```

['bosqich',
 'sana',
 'qalamlar',
 'qalamlar uy natijasi',
 'pens away natija',
 'jamoal nomi uy',
 'jamoal uy natijasi',
 'jamoal uzoqdagi natija',
 'egalik uyi',
 'egalik uzoqda',
 "uyga jami o'qlar",
 "umumiy o'qlar uzoqda",
 "uyga nishonga o'qlar",
 "uzoqda nishonga o'q uzish",
 "duellar uyda g'alaba qozondi",
 "duellar g'alaba qozondi",
 "bashorat jamoasi uy g'alabasi",
 "bashorat chizig'i",
 "bashorat jamoasi uzoqdagi g'alaba",
 'bashorat miqdori',
 'manzili',
 "voqealar ro'yxati",
 'lineup uyasi',
 'qator masofada']

```

```

for i in range(len(col_name)-1):
    for j in range(i+1,len(col_name)):
        if col_name[i]==col_name[j]:
            col_name[j]+="2"
col_name

```

```

['bosqich',
 'sana',
 'qalamlar',
 'qalamlar uy natijasi',
 'pens away natija',
 'jamoal nomi uy',

```

```
'jamoat natijasi',
'jamoat uzoqdagi natija',
'egalik uyi',
'egalik uzoqda',
"uyga jami o'qlar",
"umumiy o'qlar uzoqda",
"uyga nishonga o'qlar",
"uzoqda nishonga o'q uzish",
"duellar uyda g'alaba qozondi",
"duellar g'alaba qozondi",
"bashorat jamoasi uy g'alabasi",
"bashorat chizig'i",
"bashorat jamoasi uzoqdagi g'alaba",
'bashorat miqdori',
'manzili',
"voqealar ro'yxati",
'lineup uyasi',
'qator masofada']
```

```
df1.columns=col_name
df1.head(3)
```

|                | bosqich        | sana       | qalamlar | qalamlar<br>uy<br>natijasi | pens<br>away<br>natija | jamoat<br>nomi uy | jamoat<br>natija |
|----------------|----------------|------------|----------|----------------------------|------------------------|-------------------|------------------|
| team_name_away |                |            |          |                            |                        |                   |                  |
| France         | Quarter-finals | 10/12/2022 | False    | False                      | False                  | England           |                  |
| Portugal       | Quarter-finals | 10/12/2022 | False    | False                      | False                  | Morocco           |                  |
| Argentina      | Quarter-finals | 09/12/2022 | True     | 3                          | 4                      | Netherlands       |                  |

3 rows × 24 columns



```
hdf=pd.HDFStore("JAHON_CHEMPIONATI_2022.h5")
```

```
hdf.put("barcha", df1)
```

```
hdf.keys()
```

```
hdf.close()
```

```
new_hdf = pd.HDFStore('JAHON_CHEMPIONATI_2022.h5', mod='r')
new_hdf.keys()

['/barcha']
```

```
new_data = new_hdf.get("/barcha")
new_data.head(3)
```

|                | bosqich            | sana       | qalamlar | qalamlar<br>uy<br>natijasi | pens<br>away<br>natija | jamo<br>a nomi<br>uy | jamo<br>a uy<br>natijasi |
|----------------|--------------------|------------|----------|----------------------------|------------------------|----------------------|--------------------------|
| team_name_away |                    |            |          |                            |                        |                      |                          |
| France         | Quarter-<br>finals | 10/12/2022 | False    | False                      | False                  | England              | 1                        |
| Portugal       | Quarter-<br>finals | 10/12/2022 | False    | False                      | False                  | Morocco              | 1                        |
| Argentina      | Quarter-<br>finals | 09/12/2022 | True     | 3                          | 4                      | Netherlands          | 2                        |

3 rows × 24 columns



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