12. Create a dataframe of ten rows, four columns with random values, write a pandas program to set dataframe background colour black and font colour yellow.

Aim:

To Create a Dataframe with a black background and yellow font, we can use the pandas styler feature to apply custom css styling.

Psudo Code:

→ Import libraries to pandas and numpy.

→ Generate a Dataframe with 10 rows and 4 Columns of random float values.

→ Create a function highlight_style that applies a black background

→ Display the Dataframe.

Sample_input:

df = pd.Dataframe (np.random.rand (10,4), Columns - ['A', 'B', 'C', 'D'])

Sample output

	A	B	C	D
0	0.32203	0.38903	0.15774	0.8751
1	0.09089	0.526359	0.17649	0.44701
2	0.6294	0.836720	0.451875	0.41336
9	0.60858	0.094025	0.72256	0.50680

Result:

This code is executed Successfully and got the output.

```python
import pandas as pd
import numpy as np

# Create a DataFrame with random values
data = np.random.randn(10, 4)  # 10 rows, 4 columns
df = pd.DataFrame(data, columns=['A', 'B', 'C', 'D'])

# Set background color to black and font color to yellow
styled_df = df.style.set_properties(**{
    'background-color': 'black',
    'color': 'yellow'
})

# Display the styled DataFrame
styled_df
```

	A	B	C	D
0	1.542864	-1.277625	-0.782855	1.695680
1	-2.183589	-0.601970	-1.259810	-1.007858
2	1.273645	1.077657	-1.526835	0.461373
3	1.639446	2.225757	0.881274	1.622134
4	0.540673	0.810141	-1.075822	0.221236
5	0.103966	0.938950	-0.884829	-0.789898
6	-0.459093	-1.195202	-0.946269	-1.508790
7	1.064290	0.681748	0.068827	-0.894372
8	-1.628803	-1.223865	-2.527793	-0.413719
9	-0.600155	-1.059039	0.890669	-1.344156