

Experiment-12

AIM: To execute pandas program to set dataframe background color black & font color yellow.

Pseudocode:

- 1) Import pandas & numpy.
- 2) Create a dataframe with 10 rows & 4 columns filled with random values.
- 3) Use the `style.set_properties()` function to set the background color of df.

Sample Input:

```
df = pd.DataFrame(np.random.rand(10,4), columns=['A', 'B', 'C', 'D'])
```

Sample Output:

	A	B	C	D
0	0.3283	0.3890	0.1577	0.8751
1	0.0905	0.5213	0.1764	0.4470
2	0.6294	0.8896	0.4118	0.4132
3	0.0085	0.6940	0.7228	0.5068

Result:

The code has been successfully executed & got the output.

```
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