10

Aim:
To execute pandas program to highlight the negative numbers red and positive numbers black.

Pseudo code:

* Import libraries: Import pandas and numpy for handling the dataframe and generating random numbers.
* create a df: use numpy to generate dataframe with 10 rows and 4 columns filled with random numbers.
* highlight negative numbers: define a function to highlight negative numbers in black.

Sample input:

Dataframe of 10 rows and 4 colums of random value.

Sample output:

A	B	C	D
-1.10463	-0.0697	0.5116	0.76053
0.0218	0.2675	1.865	2.853
0.01128	0.2163	0.1112	1.672109
1.363	0.0678	0.3690	0.423323

Result:

Therefore the pandas execution for highlighting negative & positive numbers executed succesfully

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program 10.py - C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 10.py (3.12.4)

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```
import pandas as pd
import numpy as np

# Create DataFrame with random values
df = pd.DataFrame(np.random.randn(10, 4))

# Function to highlight negative numbers
def highlight_negatives(s):
    return ['color: red' if v < 0 else 'color: black' for v in s]

# Apply the highlighting
df.style.apply(highlight_negatives)
print(df)
```

IDLE Shell 3.12.4

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```
          0         1         2         3
0  1.006827  0.876526 -0.701401  0.821812
1 -0.390457  1.572903  0.041000 -1.278588
2 -0.139542 -0.161318  0.228170 -0.628316
3  0.837607 -0.000669  0.219758  0.072653
4 -1.296886  0.017380  0.282212  1.595495
5  0.866897  0.186737  1.410269 -0.915463
6  1.022344 -0.247977 -0.452670 -1.696918
7 -0.331138  0.228933 -0.007982 -1.267470
8  0.745098  0.090340 -0.627080 -0.961841
9  0.883099 -1.063393 -1.857893 -0.579969
>>>
```

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