Fwded to coursefaculty

8/11/2024.

mentor/HOD.

Thankyou

10 Create a dataframe of ten rows, four colums with random Values. write a pandas program to highlights the negative

Aim:-

To Create a Dataframe of random Values and Visually differentiate positive and negative number by colour, where negative number are highlighted in read and positive number in black.

pesudo Code:-

→ Import the necessary libraries.

→ Create a Dataframe with 10 rows and 4 Columns filled with random Values.

→ Define a function to apply custom formating, where negative Values are highlighted in red and positive value in black.

→ use the pandas style.applymap() function to apply the formating function to the Dataframe

→ Display the formated Dataframes.

Sample input:-

df = pd.dataframe (np.random.randn (10,4) columns = ['A', 'B', 'C', 'D']

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
>>>
```

Ln: 30 Col: 41