

EXPERIMENT-10

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

Pseudocode:

- 1) Import libraries: Import pandas and numpy for handling the dataframe and generating random numbers.
- 2) Create a Dataframe: Use numpy to generate dataframe with 10 rows and 4 columns filled with random numbers.
- 3) Highlight negative numbers: Define a function to highlight negative numbers in black.
- 4) Apply the style: use the style.applymap() function to apply the color scheme to the Dataframe.

Sample Input:

Dataframe of 10 rows and 4 columns of random values.

Sample Output:

	A	B	C	D
0	-1.104839	-0.44096	0.511641	0.768053
1	-0.021937	-0.02375	0.733567	-0.099865
2	-0.563391	0.616273	0.947013	0.320319
3	0.367833	0.078981	0.382690	-0.443323
4	-0.262702	-0.76578	0.224910	1.001556
5	-1.122010	-1.80331	2.501944	-0.026089
6	1.343034	-1.092009	0.563905	0.856196
7	-0.913418	0.846337	0.873456	-0.439968
8	1.318550	-1.462562	1.996661	-0.408968
9	0.105496	-1.46349	1.996221	-0.202535
10	0			

Result:

Therefore the pandas execution for highlighting negative and positive numbers executed successfully.

query lab - Colab

colab.research.google.com/drive/1lJy6pvQiHiMEA98BYzwJO_yko-coQjmu#scrollTo=ieE6GMCF5aoZ

query lab

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<ipython-input-15-9d4a928825f2>:13: FutureWarning: Styler.applymap has been deprecated. Use Styler.map instead.
[] styled_df = df.style.applymap(highlight_negative)

	A	B	C	D
0	-1.104630	-0.440945	0.511641	0.768053
1	-0.021937	-0.237585	-0.733587	-0.099385
2	-0.583381	0.616273	0.947013	0.320319
3	1.367833	0.078981	0.312690	-0.443323
4	-1.282702	-0.965788	0.234910	1.001556
5	-1.122010	-1.808351	2.501944	-0.026089
6	1.343034	-1.082009	0.563905	0.856196
7	-0.013416	0.846337	0.073456	-0.439068
8	1.318550	-1.462562	1.996661	-0.282535
9	0.105796	-0.349163	-1.453798	0.349138

[] import pandas as pd

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