

10. Create a dataframe of ten rows, four columns with random values. Write a Pandas program to highlight the negative numbers red and positive numbers black.

PROGRAM:

```
import pandas as pd

import numpy as np

# Create a DataFrame with random values

np.random.seed(42)

data = np.random.randn(10, 4)

df = pd.DataFrame(data, columns=['Column1', 'Column2', 'Column3', 'Column4'])

# Define a function to apply color based on the sign of the number

def color_negative_red(val):

    color = 'red' if val < 0 else 'black'

    return f'color: {color}'

# Apply the style to the DataFrame

styled_df = df.style.applymap(color_negative_red)

# Convert the styled DataFrame to HTML

html_output = styled_df.render()

# Print the HTML representation

print(html_output)

OUTPUT:
```