Create a dataframe of ten rows, four columns with random values. Convert some values to nan values. Write a Pandas program which will highlight the nan values.

PROGRAM:

```
import pandas as pd

import numpy as np

# Create a DataFrame with random values

np.random.seed(42)

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

columns = ['Column1', 'Column2', 'Column3', 'Column4']

df = pd.DataFrame(data, columns=columns)

# Function to set background color to black and font color to yellow

def set_styles(val):

    return 'background-color: black; color: yellow'

# Apply the styling to the entire DataFrame

styled_df = df.style.applymap(lambda x: set_styles(x), subset=pd.IndexSlice[:, :])

# Display the styled DataFrame

styled_df
```