11.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.

CODE:

```
import pandas as pd
import numpy as np

# Create a dataframe with random values
data = np.random.rand(10, 4)
df = pd.DataFrame(data, columns=['A', 'B', 'C', 'D'])

# Convert some values to NaN
nan_indices = np.random.choice(range(10), size=5, replace=False)
for col in df.columns:
    df.loc[nan_indices, col] = np.nan

# Function to highlight NaN values
def highlight_nan(value):
    if pd.isna(value):
        return 'background-color: yellow'
    else:
        return ''

# Apply the style
styled_df = df.style.applymap(highlight_nan)

# Display the styled dataframe
styled_df
```

OUTPUT:

	A	B	C	D
0	nan	nan	nan	nan
1	0.615513	0.424455	0.219693	0.626060
2	nan	nan	nan	nan
3	nan	nan	nan	nan
4	0.889727	0.845383	0.386383	0.085189
5	nan	nan	nan	nan
6	0.425368	0.813517	0.508043	0.433050
7	nan	nan	nan	nan
8	0.385670	0.603067	0.478613	0.004740
9	0.606660	0.061277	0.276199	0.290853