**Pandas Exercise**

**Source Code**

import numpy as np

import pandas as pd

data=([3., '?', 2., 5.], ['\*', 4., 5., 6.], ['+', 3., 2., '&'], [5., '?', 7., '!'])

data\_frame=pd.DataFrame(data)

print('\nDisplay the DataFrame 1')

print(data\_frame)

for i in range(4):

    for j in range(4):

        data\_frame[i][j]=pd.to\_numeric(data\_frame[i][j],errors='coerce')

print('\nDisplay the DataFrame 2')

print(data\_frame)

print('\nisna with any')

print(data\_frame.isna().any())

print('\nisna with sum')

print(data\_frame.isna().sum())

print('\ndropna with how any')

print(data\_frame.dropna(how='any'))

print('\ndropna with how all')

print(data\_frame.dropna(how='all'))

print('\ndropna with thresh 1')

print(data\_frame.dropna(thresh=1))

print('\ndropna with thresh 2')

print(data\_frame.dropna(thresh=2))

print('\nfillna with 100')

print(data\_frame.fillna(100))

print('\nfillna with mean')

print(data\_frame.fillna(data\_frame.mean()))

print('\nfillna with median')

print(data\_frame.fillna(data\_frame.median()))

print('\nfillna with ffill')

print(data\_frame.fillna(method='ffill'))

print('\nfillna with bfill')

print(data\_frame.fillna(method='bfill'))

**Output Screen Capture**

























