```
df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three'])
df=df.reindex(['a','b','c','d','e','f','g','h'])
print(df)
              NameError
                                                                                                                                        Traceback (most recent call last)
              <ipython-input-3-bf31c48f66aa> in <cell line: 1>()
                  ---> 1 df=pd.DataFrame(np.random.randn(5,3),index=
              ['a','c','e','f','h'],columns=['one','two','three'])
                               2 print(df)
                                3 df=df.reindex(['a','b','c','d','e','f','g','h'])
                               4 print(df)
              NameError: name 'pd' is not defined
import pandas as pd
import numpy as np
df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three'])
df=df.reindex(['a','b','c','d','e','f','g','h'])
print(df['one'].isnull())
                            False
             b
                              True
              С
                            False
              d
                              True
              e
                            False
              f
                           False
              g
                              True
                            False
              Name: one, dtype: bool
\label{eq:df-pd-def} $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','h'],columns=['one','two','three']) $$ $$ df=pd.DataFrame(np.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.rand
df=df.reindex(['a','b','c','d','e','f','g','h'])
print(df)
print("Nan replaced with'0':")
print(df.fillna(0))
                                     one
             a -0.104325 1.751823 2.260966
                                                                                             NaN
             b
                                   NaN
                                                                NaN
             c 0.733425 -1.948013 0.550886
                                   NaN
                                                             NaN
              e 0.710048 -2.229589 -1.161677
              f 0.290667 -0.527239 0.295639
                                    NaN
                                                                 NaN
                                                                                              NaN
              g
              h 1.069846 -0.436860 0.493428
             Nan replaced with'0':
                                   one
                                                            two
                                                                                       three
              a -0.104325 1.751823 2.260966
             b 0.000000 0.000000 0.000000
              c 0.733425 -1.948013 0.550886
              d 0.000000 0.000000 0.000000
              e 0.710048 -2.229589 -1.161677
              f 0.290667 -0.527239 0.295639
              g 0.000000 0.000000 0.000000
              h 1.069846 -0.436860 0.493428
\label{eq:df-pd} $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ $$ df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three']) $$ $$ $$ df=pd.DataFrame(np.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random.random
df=df.reindex(['a','b','c','d','e','f','g','h'])
print(df)
print('----')
print(df.fillna(method='pad'))
                                     one
                                                                  two
                                                                                    three
              a -1.513469 0.276281 1.472510
                                   NaN
                                                                 NaN
                                                                                              NaN
             c -0.841726 1.108460 0.377718
              d
                                   NaN
                                                                 NaN
                                                                                              NaN
              e 0.963333 1.571720 -0.990790
              f 0.055365 0.283036 -0.744800
                                   NaN
                                                              NaN
                                                                                            NaN
              h -0.143672 -0.787751 0.133167
                                     one
                                                                 two
                                                                                       three
              a -1.513469 0.276281 1.472510
              b -1.513469 0.276281 1.472510
              c -0.841726 1.108460 0.377718
              d -0.841726 1.108460 0.377718
```

```
e 0.963333 1.571720 -0.990790
    f 0.055365 0.283036 -0.744800
    g 0.055365 0.283036 -0.744800
    h -0.143672 -0.787751 0.133167
df=df.reindex(['a','b','c','d','e','f','g','h'])
print(df.fillna(method='bfill'))
→ ------
           one
                    two
                           three
    a -0.791002 -1.303789 -1.083806
    b 1.030946 -0.091221 -0.273036
    c 1.030946 -0.091221 -0.273036
    d -0.058735 0.437405 -0.373632
    e -0.058735 0.437405 -0.373632
    f -0.429095 0.205296 -1.237253
    g 0.353874 1.497776 -0.257745
    h 0.353874 1.497776 -0.257745
df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three'])
print(df)
df=df.reindex(['a','b','c','d','e','f','g','h'])
print(df)
print(df.dropna())
           one
                            three
                    two
    a -0.709954 -1.309735 -1.096770
    c -1.229664 1.456092 -1.209313
    e 0.000633 -0.902380 -1.109012
    f -0.433589 0.965473 -0.295473
    h -2.834491 -0.585232 -1.827761
           one
                    two
    a -0.709954 -1.309735 -1.096770
    b
          NaN
                   NaN
                             NaN
    c -1.229664 1.456092 -1.209313
          NaN
                   NaN
    e 0.000633 -0.902380 -1.109012
    f -0.433589 0.965473 -0.295473
          NaN NaN
    h -2.834491 -0.585232 -1.827761
          one two three
    a -0.709954 -1.309735 -1.096770
    c -1.229664 1.456092 -1.209313
    e 0.000633 -0.902380 -1.109012
    f -0.433589 0.965473 -0.295473
    h -2.834491 -0.585232 -1.827761
df=pd.read_csv("/content/RS_Session_259_AU_994_A_to_G_i.csv")
df.info()
                                          Traceback (most recent call last)
    <ipython-input-9-e7fb3b6f2c4a> in <cell line: 1>()
    ---> 1 df=pd.read_csv("/content/RS_Session_259_AU_994_A_to_G_i.csv")
         2 df.info()
                                   🗘 6 frames
    /usr/local/lib/python3.10/dist-packages/pandas/io/common.py in
    get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text,
    errors, storage_options)
        854
                  if ioargs.encoding and "b" not in ioargs.mode:
        855
                      # Encoding
     --> 856
                      handle = open(
        857
                          handle,
                          ioargs.mode,
    FileNotFoundError: [Errno 2] No such file or directory:
cols=['Name','Ticket','Cabin']
df=df.drop(cols,axis=1)
df.info()
df.dropna()
```

```
dummies=[]
cols=['Pclass','Sex','Embarked']
for col in cols:
  dummies.append(pd.get_dummies(df[col]))
print(df)
titanic_dummies=pd.concat(dummies,axis=1)
print(df)
df=df.drop(['Pclass','Sex','Embarked'],axis=1)
print(df)
# transfer the ight columns
titanic_dummies=pd.concat(dummies,axis=1)
print(df)
#concatenante with dataframe
df=pd.concat((df,titanic_dummies),axis=1)
print(df)
#take care of missing data
df['Age']=df['Age'],interpolate
print(df)
#normalization
from sklearn.preprocessing import MinMaxScaler
data=[[-1,2],[-0.5,6],[0,10],[1,18]]
scaler=MinMaxScaler()
print(scaler.fit(data))
print('----')
MinMaxScaler()
print(scaler.data_max_)
print('----')
print(scaler.transform(data))
from numpy import asarray
from sklearn.preprocessing import StandardScaler
#define data
data=asarray([[100,0.001],
[8,0.005],
[50,0.005],
[88,0.07],
[4,0.1]])
print(data)
#define standard scaler
scaler=StandardScaler()
#transform data
scaled=scaler.fit_transform(data)
print(scaled)
Start coding or generate with AI.
```