## **Experiment 12**

```
import pandas
data = [1,2,3,4]
series1=pandas.Series(data)
print(series1)
print(series1[0:2])
    a
         1
    1
         2
    2
         3
    dtype: int64
    1
         2
    dtype: int64
data = [1,2,3,4,5]
series1=pandas.Series(data,index = ['a','b','c','d','e'])
print(series1)
print(series1['a':'b'])
    С
         3
    d
         4
    e
         5
    dtype: int64
       1
    а
    b
         2
    dtype: int64
data = [[1,2,3,4,5],[6,7]]
df=pandas.DataFrame(data)
print(df)
               2
    0 1 2 3.0 4.0 5.0
    1 6 7 NaN NaN NaN
data={'a':[1,2,3,4],
      'b':[5,6,7,8]}
df=pandas.DataFrame(data)
print(df)
       a b
    0 1 5
    1 2 6
    2 3
          7
    3
      4
data={'fruits':['grapes','apple','mango','banana'],
      'count':[5,6,7,8]}
df=pandas.DataFrame(data)
print(df)
       fruits count
    0 grapes
                   5
    1
       apple
                   6
    2
        mango
                   7
     3 banana
# Concantenate Two Data Frames
data={'a':[1,2,3,4],
      'b':[5,6,7,8]}
df1=pandas.DataFrame(data)
data={'fruits':['grapes','apple','mango','banana'],
      'count':[5,6,7,8]}
df2=pandas.DataFrame(data)
df3=pandas.concat([df1, df2])
print(df3)
df4=pandas.concat([df1, df2], axis=1, join='inner')
print(df4)
              b fruits count
         а
    0 1.0 5.0
                    NaN
```

```
1 2.0 6.0
                   NaN
                         NaN
                 NaN
    2 3.0 7.0
                         NaN
    3 4.0 8.0
                  NaN
                          NaN
    0 NaN NaN grapes
    1 NaN NaN apple
2 NaN NaN mango
                         6.0
                         7.0
    3 NaN NaN banana
                         8.0
       a b fruits count
    0 1 5 grapes
    1 2 6
             apple
                        6
    2 3 7
             mango
    3 4 8 banana
                       8
# Merge
data={'a':[1,2,3,4],
     'b':[5,6,7,8]}
df1=pandas.DataFrame(data)
data={'fruits':['grapes','apple','mango','banana'],
     'b':[5,6,7,8]}
df2=pandas.DataFrame(data)
df3=pandas.merge(df1, df2, how='inner')
print(df3)
       a b fruits
    0 1 5 grapes
    1 2 6
             apple
             mango
    3 4 8 banana
```

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