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Assignment.ipynb

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120  
100  
110

[8] import pandas as pd  
a=pd.Series([1,2,3,4,5])  
print(a)  
print(type(a))  
print(a.tolist())  
print(type(a.tolist()))

0 1  
1 2  
2 3  
3 4  
4 5  
dtype: int64  
<class 'pandas.core.series.Series'>  
[1, 2, 3, 4, 5]  
<class 'list'>

a=pd.Series([2,4,6,8,10])  
b=pd.Series([1,3,5,7,9])  
c=a+b  
print(c)

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```
a=pd.Series([2,4,6,8,10])
b=pd.Series([1,3,5,7,9])
c=a+b
print(c)
d=a-b
print(d)
e=a*b
print(e)
f=a/b
print(f)
```

0 3  
1 7  
2 11  
3 15  
4 19  
dtype: int64  
0 1  
1 1  
2 1  
3 1  
4 1  
dtype: int64  
0 2  
1 12  
2 30  
3 56

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```
3 1
4 1
dtype: int64
0 2
1 12
2 30
3 56
4 90
dtype: int64
0 2.000000
1 1.333333
2 1.200000
3 1.142857
4 1.111111
dtype: float64
```

```
print(a==b)
print(a>b)
print(a<b)
```

```
0 False
1 False
2 False
3 False
4 False
dtype: bool
```

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```
print(a==b)
print(a>b)
print(a<b)
```

0 False  
1 False  
2 False  
3 False  
4 False  
dtype: bool  
0 True  
1 True  
2 True  
3 True  
4 True  
dtype: bool  
0 False  
1 False  
2 False  
3 False  
4 False  
dtype: bool

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[24] a={'a':100,'b':200,'c':300,'d':400,'e':800}  
b=pd.Series(a)  
print(b)

a 100  
b 200  
c 300  
d 400  
e 800  
dtype: int64

[30] import numpy as np  
a={'name': ['Anastasia', 'Dima', 'Katherine', 'James', 'Emily', 'Michael', 'Matthew', 'Laura', 'Kevin', 'Jonas'],  
'score': [12.5, 9, 16.5, np.nan, 9, 20, 14.5, np.nan, 8, 19],  
'attempts': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1],  
'qualify': ['yes', 'no', 'yes', 'no', 'no', 'yes', 'yes', 'no', 'no', 'yes']}  
b=['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']  
g=pd.DataFrame(a,b)  
print(g)

	name	score	attempts	qualify
a	Anastasia	12.5	1	yes
b	Dima	9.0	3	no
c	Katherine	16.5	2	yes
d	James	NaN	3	no

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RAM Disk

```
[31] print(g.info())
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 10 entries, a to j
Data columns (total 4 columns):
#   Column      Non-Null Count  Dtype
---  -
0    name        10 non-null     object
1    score       8 non-null      float64
2    attempts    10 non-null     int64
3    qualify     10 non-null     object
dtypes: float64(1), int64(1), object(2)
memory usage: 700.0+ bytes
None
```

```
[32] print(g.head(3))
```

```
   name  score  attempts  qualify
a  Anastasia  12.5         1     yes
b     Dima    9.0         3     no
c  Katherine  16.5         2     yes
```

```
[39] print(g[['name', 'score']])
```

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b	Dima	9.0	3	no
c	Katherine	16.5	2	yes

[39] print(g[['name','score']])

	name	score
a	Anastasia	12.5
b	Dima	9.0
c	Katherine	16.5
d	James	NaN
e	Emily	9.0
f	Michael	20.0
g	Matthew	14.5
h	Laura	NaN
i	Kevin	8.0
j	Jonas	19.0

print(g.iloc[[1,3,5,6],[0,1]])

	name	score
b	Dima	9.0
d	James	NaN
f	Michael	20.0
g	Matthew	14.5

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