In [6]:
```
import pandas as pd
import numpy as np
```

In [7]:
```
ice_cream=["strawberry","choco","vanilla","cookies"]
```

In [8]:
```
pd.Series(ice_cream)
```

Out[8]:
```
0    strawberry
1         choco
2       vanilla
3       cookies
dtype: object
```

In [10]:
```
lotter_number=[12,45,67,89,9]
pd.Series(lotter_number)
```

Out[10]:
```
0    12
1    45
2    67
3    89
4     9
dtype: int64
```

In [11]:
```
#datatype is integer now because it has numbers
```

In [12]:
```
deci=[1.2,3.4,3.3,5.5]
pd.Series(deci)
```

Out[12]:
```
0    1.2
1    3.4
2    3.3
3    5.5
dtype: float64
```

In [13]:
```
#datatype now is float because it has decimals
```

In [14]:
```
sushi={"salmon":"orange","tuna":"red","eel":"brown"}
pd.Series(sushi)
```

Out[14]:
```
salmon    orange
tuna         red
eel        brown
dtype: object
```

In [15]:
```
#this series was through dictionary
```

In [24]:
```
#now the use of methods.
```

In [25]:
```
price=pd.Series([23.5,45,78,2,5]) #this is a function
```

In [26]:
```
price
```

Out[26]:
```
0    23.5
1    45.0
2    78.0
3     2.0
4     5.0
dtype: float64
```

In [27]:
```
price.sum()
```

Out[27]:
```
153.5
```

In [30]:
```
price.mean()
```

Out[30]:
```
30.7
```

In [31]:
```
price.std()
```

Out[31]:
```
31.53490129998824
```

In [33]:
```
adjectives=pd.Series(["beautiful","smart","intelligent","handsome","smart"])
adjectives
```

Out[33]:
```
0      beautiful
1          smart
2    intelligent
3       handsome
4          smart
dtype: object
```

In [35]:
```
adjectives.size #this is an attribute and cant be used as function so u dont use round brackets
```

Out[35]:
```
5
```

In [36]:
```
adjectives.values
```

Out[36]:
```
array(['beautiful', 'smart', 'intelligent', 'handsome', 'smart'],
      dtype=object)
```

In [39]:
```
adjectives.is_unique #because "smart" is repeated twice so not all values are unique therefore its false
```

Out[39]:
```
False
```

In [41]:
```
type(adjectives.values) #this is numpy array not pandas array
```

Out[41]:
```
numpy.ndarray
```

In [43]:
```
weekdays=["monday","tuesday","wednesday","thursday","friday","saturday","sunday"]
fruits=["apple","grape","watermelon","guava","kiwi","litchi","mango"]
```

In [44]:
```
pd.Series(weekdays,fruits)
```

Out[44]:
```
apple           monday
grape          tuesday
watermelon    wednesday
guava          thursday
kiwi             friday
litchi         saturday
mango            sunday
dtype: object
```

In [45]:
```
pd.Series(fruits,weekdays)
```

Out[45]:
```
monday            apple
tuesday           grape
wednesday    watermelon
thursday          guava
friday             kiwi
saturday         litchi
sunday            mango
dtype: object
```

In [47]:
```
pd.Series(index=fruits,data=weekdays)
```

Out[47]:
```
apple            monday
grape           tuesday
watermelon    wednesday
guava          thursday
kiwi             friday
litchi         saturday
mango            sunday
dtype: object
```

In [ ]:

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