

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

```
In [2]: #string
country=["India",'Pakistan','Nepal','Srilanka']
pd.Series(country)
#pandas calls strings as an object
```

```
Out[2]: 0      India
1    Pakistan
2        Nepal
3    Srilanka
dtype: object
```

```
In [3]: #integers
runs=[31,45,52,82,11]
runs_series=pd.Series(runs)
```

```
In [4]: #custom index
marks=[67,45,82,98,33]
subjects=['Maths','English','Hindi','Sanskrit','Science']
pd.Series(marks,index=subjects)
```

```
Out[4]: Maths      67
English    45
Hindi      82
Sanskrit   98
Science    33
dtype: int64
```

```
In [5]: #setting a name for series object
marks=pd.Series(marks,index=subjects,name='School Marks')
marks
```

```
Out[5]: Maths      67
English    45
Hindi      82
Sanskrit   98
Science    33
Name: School Marks, dtype: int64
```

```
In [6]: #series from dict
marks={
    "Maths":67,
    "English":45,
    "Hindi":82,
    "Sanskrit":98,
    "Science":33
}
marks_series=pd.Series(marks,name='School Marks')
marks_series
```

```
Out[6]: Maths      67
English    45
Hindi      82
Sanskrit   98
Science    33
Name: School Marks, dtype: int64
```

Series Attributes

```
In [51]: #size
```

```

marks_series.size
Out[51]: 5

In [8]: #dtype
marks_series.dtype
Out[9]: dtype('int64')

In [10]: #name
marks_series.name
Out[10]: 'School Marks'

In [11]: #is_uniques
marks_series.is_unique
Out[11]: True

In [12]: #index
marks_series.index
Out[12]: Index(['Maths', 'English', 'Hindi', 'Sanskrit', 'Science'], dtype='object')

In [13]: runs_series.index
Out[13]: RangeIndex(start=0, stop=5, step=1)

In [14]: #values
marks_series.values
Out[14]: array([67, 45, 82, 98, 33], dtype=int64)

In [15]: type(marks_series.values)
Out[15]: numpy.ndarray

```

series using read_csv

```

In [16]: #with one col
subs=pd.read_csv(r'C:\Users\thean\OneDrive\Desktop\Campus-X\Session Data\16 Data\subs.csv', squeeze=True)

C:\Users\thean\AppData\Local\Temp\ipykernel_21364\1346100303.py:2: FutureWarning: The squeeze argument has been deprecated and will be removed in a future version. Append .squeeze("columns") to the call to squeeze.

    subs=pd.read_csv(r'C:\Users\thean\OneDrive\Desktop\Campus-X\Session Data\16 Data\subs.csv', squeeze=True)
Out[16]:
0      48
1      57
2      40
3      43
4      44
...
360    231

```

```
361      226
362      155
363      144
364      172
Name: Subscribers gained, Length: 365, dtype: int64
```

```
In [17]: type(subs)
```

```
Out[17]: pandas.core.series.Series
```

```
In [232]: #with 2 columns
vk=pd.read_csv(r"C:\Users\thean\OneDrive\Desktop\Campus-X\Session Data\16 Data\kohli_ipl
vk
```

```
C:\Users\thean\AppData\Local\Temp\ipykernel_21364\3110238981.py:2: FutureWarning: The sq
ueeze argument has been deprecated and will be removed in a future version. Append .sque
eze("columns") to the call to squeeze.
```

```
vk=pd.read_csv(r"C:\Users\thean\OneDrive\Desktop\Campus-X\Session Data\16 Data\kohli_i
pl.csv",index_col='match_no',squeeze=True)
```

```
Out[232]: match_no
1         1
2        23
3        13
4        12
5         1
..
211        0
212        0
213        7
214        5
215         7
Name: runs, Length: 215, dtype: int64
```

```
In [19]: movies=pd.read_csv(r"C:\Users\thean\OneDrive\Desktop\Campus-X\Session Data\16 Data\bolly
movies
```

```
C:\Users\thean\AppData\Local\Temp\ipykernel_21364\4005456940.py:1: FutureWarning: The sq
ueeze argument has been deprecated and will be removed in a future version. Append .sque
eze("columns") to the call to squeeze.
```

```
movies=pd.read_csv(r"C:\Users\thean\OneDrive\Desktop\Campus-X\Session Data\16 Data\bol
lywood.csv",index_col='movie',squeeze=True)
```

```
Out[19]: movie
Uri: The Surgical Strike          Vicky Kaushal
Battalion 609                     Vicky Ahuja
The Accidental Prime Minister (film)  Anupam Kher
Why Cheat India                   Emraan Hashmi
Evening Shadows                   Mona Ambegaonkar
...
Hum Tumhare Hain Sanam            Shah Rukh Khan
Aankhen (2002 film)               Amitabh Bachchan
Saathiya (film)                  Vivek Oberoi
Company (film)                   Ajay Devgn
Awara Paagal Deewana              Akshay Kumar
Name: lead, Length: 1500, dtype: object
```

```
In [20]: # head and tail
subs.head() #first 5 rows
```

```
Out[20]: 0      48
1      57
2      40
```

```
3      43
4      44
Name: Subscribers gained, dtype: int64
```

```
In [21]: vk.head(15) # first 6 rows
```

```
Out[21]: match_no
1         1
2        23
3        13
4        12
5         1
6         9
7        34
8         0
9        21
10        3
11       10
12       38
13        3
14       11
15       50
Name: runs, dtype: int64
```

```
In [22]: vk.tail() #last 5 rows
```

```
Out[22]: match_no
211        0
212       20
213       73
214       25
215        7
Name: runs, dtype: int64
```

```
In [23]: vk.tail(6) #last 6 rows
```

```
Out[23]: match_no
210       30
211        0
212       20
213       73
214       25
215        7
Name: runs, dtype: int64
```

```
In [24]: #sample
movies.sample() #random 1 movie
```

```
Out[24]: movie
Kyaa Super Kool Hain Hum      Riteish Deshmukh
Name: lead, dtype: object
```

```
In [25]: movies.sample(4) #random 4 movies
```

```
Out[25]: movie
Maqbool      Irrfan Khan
Kyon Ki      Salman Khan
Gulaab Gang  Madhuri Dixit
Udta Punjab  Shahid Kapoor
Name: lead, dtype: object
```

```
In [26]: # value_counts -> movies
movies.value_counts()
```

```
Out[26]: Akshay Kumar      48
Amitabh Bachchan    45
Ajay Devgn          38
```

```

Salman Khan      31
Sanjay Dutt      26
..
Diganth          1
Parveen Kaur     1
Seema Azmi       1
Akanksha Puri    1
Edwin Fernandes  1
Name: lead, Length: 566, dtype: int64

```

```

In [27]: # sort_values -> inplace
vk.sort_values()

```

```

Out[27]: match_no
87      0
211     0
207     0
206     0
91      0
...
164    100
120    100
123    108
126    109
128    113
Name: runs, Length: 215, dtype: int64

```

```

In [28]: vk.sort_values(ascending=False)

```

```

Out[28]: match_no
128    113
126    109
123    108
164    100
120    100
...
93      0
211     0
130     0
8        0
135     0
Name: runs, Length: 215, dtype: int64

```

```

In [29]: vk.sort_values(ascending=False).head(1)

```

```

Out[29]: match_no
128    113
Name: runs, dtype: int64

```

```

In [30]: vk.sort_values(ascending=False).head(1).values[0]

```

```

Out[30]: 113

```

```

In [31]: vk.sort_values(ascending=False)

```

```

Out[31]: match_no
128    113
126    109
123    108
164    100
120    100
...
93      0
211     0
130     0
8        0

```

```
135      0
Name: runs, Length: 215, dtype: int64
```

```
In [32]: vk.sort_values(inplace=True)
vk #permanen changes in vk variable "sorted"
```

```
Out[32]: match_no
87      0
211     0
207     0
206     0
91      0
...
164    100
120    100
123    108
126    109
128    113
Name: runs, Length: 215, dtype: int64
```

```
In [33]: vk
```

```
Out[33]: match_no
87      0
211     0
207     0
206     0
91      0
...
164    100
120    100
123    108
126    109
128    113
Name: runs, Length: 215, dtype: int64
```

```
In [34]: #sort_index -> inplace -> movies
movies.sort_index(inplace=True)
movies
```

```
Out[34]: movie
1920 (film)          Rajniesh Duggall
1920: London        Sharman Joshi
1920: The Evil Returns  Vicky Ahuja
1971 (2007 film)      Manoj Bajpayee
2 States (2014 film)   Arjun Kapoor
...
Zindagi 50-50        Veena Malik
Zindagi Na Milegi Dobara  Hrithik Roshan
Zindagi Tere Naam      Mithun Chakraborty
Zokkomon             Darsheel Safary
Zor Lagaa Ke...Haiya!    Meghan Jadhav
Name: lead, Length: 1500, dtype: object
```

series maths methods

```
In [35]: #count- Count gives total numbers of items present in series
#it counts only non misssing values
vk.count()
```

```
Out[35]: 215
```

```
In [36]: #sum-> product
subs.sum()
```

Out[36]: 49510

```
In [37]: #sum-product
subs.product() # o output coming because somedays there were zero subscribers
```

Out[37]: 0

```
In [38]: #mean - median - mode - std - var
subs.mean()
```

Out[38]: 135.64383561643837

```
In [39]: vk.median()
```

Out[39]: 24.0

```
In [40]: subs.median()
```

Out[40]: 123.0

```
In [41]: print(movies.mode())
```

```
0    Akshay Kumar
Name: lead, dtype: object
```

```
In [42]: subs.std()
```

Out[42]: 62.67502303725269

```
In [43]: vk.var()
```

Out[43]: 688.0024777222342

```
In [44]: #min max
subs.min()
```

Out[44]: 33

```
In [45]: vk.max()
```

Out[45]: 113

```
In [193... #describe
vk.describe()
```

```
Out[193]: count      215.000000
mean         30.855814
std          26.229801
min           0.000000
25%           9.000000
50%          24.000000
75%          48.000000
max          113.000000
Name: runs, dtype: float64
```

```
In [47]: subs.describe()
```

```
Out[47]: count      365.000000
mean         135.643836
std          62.675023
```

```
min      33.000000
25%      88.000000
50%     123.000000
75%     177.000000
max      396.000000
Name: Subscribers gained, dtype: float64
```

```
In [48]: #integer indexing
x= pd.Series([12,13,14,15,66,88,7,5,95,52,65])
x[8]
```

Out[48]: 95

```
In [49]: #negative indexing
x[-1] #series does not work in negative indexing
```

```
-----
ValueError                                Traceback (most recent call last)
~\anaconda3\lib\site-packages\pandas\core\indexes\range.py in get_loc(self, key, method,
tolerance)
    384             try:
--> 385                 return self._range.index(new_key)
    386             except ValueError as err:

ValueError: -1 is not in range

The above exception was the direct cause of the following exception:

KeyError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_21364\1508743630.py in <module>
      1 #negative indexing
----> 2 x[-1] #series does not work in negative indexing

~\anaconda3\lib\site-packages\pandas\core\series.py in __getitem__(self, key)
    956
    957         elif key_is_scalar:
--> 958             return self._get_value(key)
    959
    960         if is_hashable(key):

~\anaconda3\lib\site-packages\pandas\core\series.py in _get_value(self, label, takeable)
   1067
   1068         # Similar to Index.get_value, but we do not fall back to positional
-> 1069         loc = self.index.get_loc(label)
   1070         return self.index._get_values_for_loc(self, loc, label)
   1071

~\anaconda3\lib\site-packages\pandas\core\indexes\range.py in get_loc(self, key, method,
tolerance)
    385                 return self._range.index(new_key)
    386             except ValueError as err:
--> 387                 raise KeyError(key) from err
    388             self._check_indexing_error(key)
    389             raise KeyError(key)

KeyError: -1
```

```
In [52]: movies
```

```
Out[52]: movie
1920 (film)                Rajniesh Duggall
1920: London                Sharman Joshi
1920: The Evil Returns      Vicky Ahuja
1971 (2007 film)           Manoj Bajpayee
2 States (2014 film)        Arjun Kapoor
```



```

...
Zindagi 50-50                                Veena Malik
Zindagi Na Milegi Dobara                     Hrithik Roshan
Zindagi Tere Naam                           Mithun Chakraborty
Zokkomon                                    Darsheel Safary
Zor Lagaa Ke...Haiya!                       Meghan Jadhav
Name: lead, Length: 1500, dtype: object

```

```
In [53]: movies['Zindagi 50-50']
```

```
Out[53]: 'Veena Malik'
```

```
In [55]: movies[0]
```

```
Out[55]: 'Rajniesh Duggall'
```

```
In [54]: movies[-1]
```

```
Out[54]: 'Meghan Jadhav'
```

```
In [56]: vk[-1]
```

```

-----
KeyError                                Traceback (most recent call last)
~\anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_loc(self, key, method,
tolerance)
    3628         try:
-> 3629             return self._engine.get_loc(casted_key)
    3630         except KeyError as err:

~\anaconda3\lib\site-packages\pandas\_libs\index.pyx in pandas._libs.index.IndexEngine.g
et_loc()

~\anaconda3\lib\site-packages\pandas\_libs\index.pyx in pandas._libs.index.IndexEngine.g
et_loc()

pandas\_libs\hashtable_class_helper.pxi in pandas._libs.hashtable.Int64HashTable.get_ite
m()

pandas\_libs\hashtable_class_helper.pxi in pandas._libs.hashtable.Int64HashTable.get_ite
m()

KeyError: -1

```

The above exception was the direct cause of the following exception:

```

KeyError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_21364\1239804387.py in <module>
----> 1 vk[-1]

~\anaconda3\lib\site-packages\pandas\core\series.py in __getitem__(self, key)
    956
    957         elif key_is_scalar:
-> 958             return self._get_value(key)
    959
    960         if is_hashable(key):

~\anaconda3\lib\site-packages\pandas\core\series.py in _get_value(self, label, takeable)
   1067
   1068         # Similar to Index.get_value, but we do not fall back to positional
-> 1069         loc = self.index.get_loc(label)
   1070         return self.index._get_values_for_loc(self, loc, label)
   1071

```

```

~\anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_loc(self, key, method,
tolerance)
    3629         return self._engine.get_loc(casted_key)
    3630     except KeyError as err:
-> 3631         raise KeyError(key) from err
    3632     except TypeError:
    3633         # If we have a listlike key, _check_indexing_error will raise
KeyError: -1

```

In [58]: marks[-1] # negative indexing doesnt work

```

-----
KeyError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_21364\2872896180.py in <module>
----> 1 marks[-1] # negative indexing doesnt work
KeyError: -1

```

slicing

In [59]: vk[5:16]

```

Out[59]: match_no
93      0
8       0
130     0
135     0
106     1
113     1
77      1
75      1
1       1
174     1
5       1
Name: runs, dtype: int64

```

In [194... vk[5:]

```

Out[194]: match_no
6       9
7      34
8       0
9      21
10      3
      ..
211     0
212    20
213    73
214    25
215     7
Name: runs, Length: 210, dtype: int64

```

In [61]: movies[5:]

```

Out[61]: movie
22 Yards                Barun Sobti
3 A.M. (2014 film)      Salil Acharya
3 Deewarein            Naseeruddin Shah
3 Idiots                Aamir Khan
3 Storeys              Aisha Ahmed
...
Zindagi 50-50          Veena Malik
Zindagi Na Milegi Dobara  Hrithik Roshan

```

```
Zindagi Tere Naam          Mithun Chakraborty
Zokkomon                   Darsheel Safary
Zor Lagaa Ke...Haiya!      Meghan Jadhav
Name: lead, Length: 1495, dtype: object
```

```
In [62]: movies[::2]
```

```
Out[62]: movie
1920 (film)          Rajnesh Duggall
1920: The Evil Returns    Vicky Ahuja
2 States (2014 film)      Arjun Kapoor
3 A.M. (2014 film)       Salil Acharya
3 Idiots              Aamir Khan
...
Zero (2018 film)        Shah Rukh Khan
Zila Ghaziabad          Vivek Oberoi
Zindaggi Rocks          Sushmita Sen
Zindagi Na Milegi Dobara    Hrithik Roshan
Zokkomon                Darsheel Safary
Name: lead, Length: 750, dtype: object
```

```
In [195]: #fancy indexing
vk[[5,7,9]]
```

```
Out[195]: match_no
5         1
7         34
9         21
Name: runs, dtype: int64
```

Editing Series

```
In [50]: #using indexing
marks_series[1]=100
marks_series
```

```
Out[50]: Maths          67
English        100
Hindi          82
Sanskrit       98
Science        33
Name: School Marks, dtype: int64
```

```
In [64]: #what if an index does not exist
marks_series['sst']=90
marks_series
```

```
Out[64]: Maths          67
English        100
Hindi          82
Sanskrit       98
Science        33
sst            90
Name: School Marks, dtype: int64
```

```
In [67]: runs_series
```

```
Out[67]: 0         31
1         45
2         52
3         82
4         11
dtype: int64
```

```
In [69]: runs_series[2:4]=[100,100]
```

```

runs_series
Out[69]:
0      31
1      45
2     100
3     100
4      11
dtype: int64

In [71]: #fancy indexing
runs_series[[0,3,4]]=[0,0,0]
runs_series

Out[71]:
0      0
1     45
2    100
3      0
4      0
dtype: int64

In [73]: #usin index label
movies['2 States (2014 film)']='Alia Bhatt'
movies

Out[73]:
movie
1920 (film)                Rajniesh Duggall
1920: London                Sharman Joshi
1920: The Evil Returns      Vicky Ahuja
1971 (2007 film)           Manoj Bajpayee
2 States (2014 film)       Alia Bhatt
...
Zindagi 50-50              Veena Malik
Zindagi Na Milegi Dobara   Hrithik Roshan
Zindagi Tere Naam          Mithun Chakraborty
Zokkomon                   Darsheel Safary
Zor Lagaa Ke...Haiya!      Meghan Jadhav
Name: lead, Length: 1500, dtype: object

```

series with python functionalities

```

In [78]: #len/type/dir/sorted/max/min
print(len(subs))
print(type(subs))

365
<class 'pandas.core.series.Series'>

In [80]: print(sorted(subs))

[33, 33, 35, 37, 39, 40, 40, 40, 40, 42, 42, 43, 44, 44, 44, 45, 46, 46, 48, 49, 49, 49,
49, 50, 50, 50, 51, 54, 56, 56, 56, 56, 57, 61, 62, 64, 65, 65, 66, 66, 66, 66, 67, 68,
70, 70, 70, 71, 71, 72, 72, 72, 72, 72, 73, 74, 74, 75, 76, 76, 76, 76, 77, 77, 78, 78,
78, 79, 79, 80, 80, 80, 81, 81, 82, 82, 83, 83, 83, 84, 84, 84, 85, 86, 86, 86, 87, 87,
87, 87, 88, 88, 88, 88, 88, 89, 89, 89, 90, 90, 90, 90, 91, 92, 92, 92, 93, 93, 93, 93,
95, 95, 96, 96, 96, 96, 97, 97, 98, 98, 99, 99, 100, 100, 100, 101, 101, 101, 102, 102,
103, 103, 104, 104, 104, 105, 105, 105, 105, 105, 105, 105, 105, 105, 105, 108, 108, 108, 10
8, 108, 108, 109, 109, 110, 110, 110, 111, 111, 112, 113, 113, 113, 114, 114, 114, 114,
115, 115, 115, 115, 117, 117, 117, 118, 118, 119, 119, 119, 119, 120, 122, 123, 123, 12
3, 123, 123, 124, 125, 126, 127, 128, 128, 129, 130, 131, 131, 132, 132, 134, 134, 134,
135, 135, 136, 136, 136, 137, 138, 138, 138, 139, 140, 144, 145, 146, 146, 146, 146, 14
7, 149, 150, 150, 150, 150, 151, 152, 152, 152, 153, 153, 153, 154, 154, 154, 155, 155,
156, 156, 156, 156, 157, 157, 157, 157, 158, 158, 159, 159, 160, 160, 160, 160, 162, 16
4, 166, 167, 167, 168, 170, 170, 170, 170, 171, 172, 172, 173, 173, 173, 174, 174, 175,
175, 176, 176, 177, 178, 179, 179, 180, 180, 180, 182, 183, 183, 183, 184, 184, 184, 18
5, 185, 185, 185, 186, 186, 186, 188, 189, 190, 190, 192, 192, 192, 196, 196, 196, 197,

```

```
197, 202, 202, 202, 203, 204, 206, 207, 209, 210, 210, 211, 212, 213, 214, 216, 219, 220, 221, 221, 222, 222, 224, 225, 225, 226, 227, 228, 229, 230, 231, 233, 236, 236, 237, 241, 243, 244, 245, 247, 249, 254, 254, 258, 259, 259, 261, 261, 265, 267, 268, 269, 276, 276, 290, 295, 301, 306, 312, 396]
```

```
In [81]: print(min(subs))
```

```
33
```

```
In [82]: max(subs)
```

```
Out[82]: 396
```

```
In [77]: print(dir(subs))
```

```
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```

```
'isin', 'isna', 'isnull', 'item', 'items', 'iteritems', 'keys', 'kurt', 'kurtosis', 'last', 'last_valid_index', 'le', 'loc', 'lt', 'mad', 'map', 'mask', 'max', 'mean', 'median', 'memory_usage', 'min', 'mod', 'mode', 'mul', 'multiply', 'name', 'nbytes', 'ndim', 'ne', 'nlargest', 'notna', 'notnull', 'nsmallest', 'nunique', 'pad', 'pct_change', 'pipe', 'plot', 'pop', 'pow', 'prod', 'product', 'quantile', 'radd', 'rank', 'ravel', 'rdiv', 'rdivmod', 'reindex', 'reindex_like', 'rename', 'rename_axis', 'reorder_levels', 'repeat', 'replace', 'resample', 'reset_index', 'rfloordiv', 'rmod', 'rmul', 'rolling', 'round', 'rpow', 'rsub', 'rtruediv', 'sample', 'searchsorted', 'sem', 'set_axis', 'set_flags', 'shape', 'shift', 'size', 'skew', 'slice_shift', 'sort_index', 'sort_values', 'squeeze', 'std', 'sub', 'subtract', 'sum', 'swapaxes', 'swaplevel', 'tail', 'take', 'to_clipboard', 'to_csv', 'to_dict', 'to_excel', 'to_frame', 'to_hdf', 'to_json', 'to_latex', 'to_list', 'to_markdown', 'to_numpy', 'to_period', 'to_pickle', 'to_sql', 'to_string', 'to_timestamp', 'to_xarray', 'transform', 'transpose', 'truediv', 'truncate', 'tz_convert', 'tz_localize', 'unique', 'unstack', 'update', 'value_counts', 'values', 'var', 'view', 'where', 'xs']
```

```
In [83]: #type conversion
list(marks_series)
```

```
Out[83]: [67, 100, 82, 98, 33, 90]
```

```
In [84]: dict(marks_series)
```

```
Out[84]: {'Maths': 67,
          'English': 100,
          'Hindi': 82,
          'Sanskrit': 98,
          'Science': 33,
          'sst': 90}
```

```
In [88]: #membership operator
"2 States (2014 film)" in movies
```

```
Out[88]: True
```

```
In [90]: "Sharman Joshi" in movies
```

```
Out[90]: False
```

```
In [92]: "Sharman Joshi" in movies.values
```

```
Out[92]: True
```

```
In [95]: #looping
for i in movies:
    print(i)
```

```
Rajniesh Duggall
Sharman Joshi
Vicky Ahuja
Manoj Bajpayee
Alia Bhatt
Barun Sobti
Salil Acharya
Naseeruddin Shah
Aamir Khan
Aisha Ahmed
Soha Ali Khan
Akshaye Khanna
Neil Nitin Mukesh
Sara Arjun
Nargis Fakhri
Mouli Ganguly
Vipin Sharma
```

Priyanka Chopra
Juhi Chawla
Atul Kulkarni
Kunal Khemu
Shawar Ali
Kiran Bhatia
Shabana Azmi
Jimmy Sheirgill
Tiger Shroff
Sidharth Malhotra
Prabhu Deva
Neil Nitin Mukesh
Govinda
Naveen Bawa
Amitabh Bachchan
Shreyas Talpade
Sudesh Berry
Madhuri Dixit
Paul Sidhu
Ajay Devgn
Omkar Das Manikpuri
Shatrughan Sinha
Arun Bakshi
Amitabh Bachchan
Himesh Reshammiya
Akshaye Khanna
Priyanshu Chatterjee
Amitabh Bachchan
John Abraham
Emraan Hashmi
Aditya Roy Kapoor
Ishaan Manhaas
Hrishitaa Bhatt
Sachiin Joshi
Nana Patekar
Amitabh Bachchan
Farooq Shaikh
Fardeen Khan
Prabhas
Akshay Kumar
Rahul Dev
Ranbir Kapoor
Amitabh Bachchan
Kareena Kapoor
Tusshar Kapoor
Hrithik Roshan
Jimmy Sheirgill
Abhay Deol
Akshay Kumar
Rati Agnihotri
Yashpal Sharma
Akshay Kumar
Sidharth Malhotra
Rani Mukerji
Jackky Bhagnani
Ranbir Kapoor
Sushama Deshpande
Kartik Aaryan
Emraan Hashmi
Zareen Khan
Amitabh Bachchan
Akshay Kapoor
Manav Kaul
Sukhesh Arora
Rishi Kapoor
Sanjay Dutt

Varun Bhagwat
Bipasha Basu
Aftab Shivdasani
Lillete Dubey
Ali Asgar
Vir Das
Pankaj Tripathi
Dino Morea
Akshay Kumar
Akshay Kumar
Ayushmann Khurrana
Sumit Arora
Priyanka Chopra
Manisha Koirala
Aftab Shivdasani
Sanjay Mishra
Kay Kay Menon
Shashank Udaypurkar
Raj Singh Chaudhary
Sanjay Dutt
Sachin Khedekar
Nauheed Cyrusi
Ajay Devgn
Rohit Roy
Irrfan Khan
Bobby Darling
Dharmendra
Diljit Dosanjh
Yudhveer Bakoliya
Amitabh Bachchan
Ayushmann Khurrana
Sohail Khan
Arjun Rampal
Asrani
Krishna Abhishek
Arjun Kapoor
Prakash Belawadi
Akshay Kumar
Emraan Hashmi
Emraan Hashmi
Shadab Kamal
Mithun Chakraborty
Amitabh Bachchan
Shraddha Kapoor
Tiger Shroff
Sidharth Malhotra
Anisa Butt
Jackie Shroff
Radhika Apte
Sahil Anand
Sudha Chandran
Nawazuddin Siddiqui
Akshay Kumar
Manoj Babani
Rekha
Ranbir Kapoor
Ayushmann Khurrana
Amitabh Bachchan
Varun Dhawan
Annu Kapoor
Sidhant Gupta
Varun Dhawan
Amitabh Bachchan
Tushar Kapoor
Ranveer Singh
Salman Khan

Ayushmann Khurrana
Asrani
Urmila Matondkar
Ranveer Singh
Manisha Kelkar
Hrithik Roshan
Jacqueline Fernandez
Riteish Deshmukh
Riteish Deshmukh
Naseeruddin Shah
Bobby Deol
Ayushmann Khurrana
Ranbir Kapoor
Sara Loren
Bobby Deol
Juhi Chawla
Sadashiv Amrapurkar
John Abraham
Vicky Ahuja
Shahid Kapoor
Reshmi Ghosh
Amitabh Bachchan
Vaani Kapoor
Amitabh Bachchan
Rajkummar Rao
Sunny Leone
Naseeruddin Shah
Anil Kapoor
Ayushmann Khurrana
Ishaan Khattar
Mugdha Godse
Kunal Khemu
Farhan Akhtar
Akshay Kumar
Tabu
Sunny Deol
Shaurya Singh
Harshvardhan Kapoor
Vinay Pathak
Vinay Pathak
Ali Asgar
Akshay Kumar
Sunny Leone
Ajay Devgn
J.D. Chakravarthi
Jackie Shroff
Amitabh Bachchan
Amitabh Bachchan
Mischa Barton
Dino Morea
Sunny Deol
Irrfan Khan
Naushaad Abbas
Danny Denzongpa
Pulkit Samrat
Amitabh Bachchan
Kay Kay Menon
Ajay Devgn
Jazzy Doe
Manish Chaudhary
Akash
Akshay Kumar
Abhishek Bachchan
Vidya Balan
Salman Khan
Amitabh Bachchan

Raima Sen
Radhika Apte
Rani Mukerji
Ranbir Kapoor
Shreyas Talpade
Sunil Pal
Amitabh Bachchan
Sanjay Dutt
Akshay Kumar
Shashank Arora
Deepika Padukone
Vinay Virmani
Arjun Mathur
Akshay Kumar
Apoorva Arora
Mona Ambegaonkar
Aanchal Dwivedi
Saayli Buva
Saif Ali Khan
Kavin Dave
Atul Kulkarni
Seema Azmi
Abhishek Bachchan
Neil Nitin Mukesh
Tusshar Kapoor
Hemant Gopal
Anil Kapoor
Akanksha Puri
Ajay Devgn
Aryan Vaid
Naseeruddin Shah
Tusshar Kapoor
Soha Ali Khan
Shah Rukh Khan
Arjun Rampal
Asrani
Sagar Bhangade
Richa Chadha
Vickrant Mahajan
Vinay Pathak
Shah Rukh Khan
Kareena Kapoor
Bobby Deol
Shahid Kapoor
Somesh Agarwal
Samir Aftab
Mithun Chakraborty
Jimmy Sheirgill
Dev Anand
Anuj Saxena
Ali Zafar
Sanjay Dutt
Amitabh Bachchan
Saif Ali Khan
Bipasha Basu
Deepika Padukone
Jatin Grewal
Jimmy Sheirgill
Rupa Bhimani
Natalia Janoszek
Mohammad Amir Najji
Farooq Shaikh
Aarav Khanna
Parveen Kaur
Sushmita Sen
Rishi Kapoor

Manoj Bajpayee
Anil Kapoor
Deepak Dobriyal
Ajay Devgn
Kareena Kapoor
Zayed Khan
Ashok Banthia
Sachin Khedekar
Rajkummar Rao
Mithun Chakraborty
Shreyas Talpade
Saif Ali Khan
Arjun Mathur
Sunil Grover
Vidyut Jammwal
Vidyut Jammwal
Ajay Devgn
Adhvik Mahajan
Bipasha Basu
Vira Sathidar
Swanand Kirkire
Bipasha Basu
Emraan Hashmi
Randeep Hooda
Rishi Kapoor
Yogesh Raj Mishra
Aditya Roy Kapoor
Salman Khan
Salman Khan
Salman Khan
Arjun Rampal
Sunil Shetty
Himesh Reshammiya
Aamir Khan
Karisma Kapoor
Fardeen Khan
Sameera Reddy
Amitabh Bachchan
Jimmy Sheirgill
Ishrat Ali
Neil Nitin Mukesh
Vinay Pathak
Yash Soni
Akshay Kumar
Ajay Devgn
Aftab Shivdasani
Rajit Kapoor
Arvind Swamy
Raghuvir Yadav
Manisha Koirala
Alia Bhatt
Madhuri Dixit
Amitabh Bachchan
Akshay Kumar
Adhyayan Suman
Satish Kaushik
Imran Khan
Cary Elwes
Waheeda Rehman
Sanjay Dutt
Kamal Rashid Khan
Akshay Kumar
Sasha Aagha
Sushant Singh Rajput
Amitabh Bachchan
Ram Kapoor

Shah Rukh Khan
RJ Balaji
Ishaan Khattar
Sanjay Dutt
Krrish Chhabria
Naseeruddin Shah
Pankaj Kapur
Ajay Devgn
Prateik
Muzamil Ibrahim
Sharman Joshi
Abhishek Bachchan
Hrithik Roshan
Aamir Khan
Paresh Rawal
Om Puri
Amar Upadhyaya
Sushant Singh Rajput
Vikaas Kalantari
Shahid Kapoor
Anil Kapoor
Emraan Hashmi
Imaaduddin Shah
Amitabh Bachchan
Himansh Kohli
Taapsee Pannu
Arjun Rampal
Irrfan Khan
Shahid Kapoor
Salman Khan
Kapil Jhaveri
Ajay Devgn
Zeenat Aman
Ira Dubey
Shah Rukh Khan
Rajniesh Duggall
Anupam Kher
Harman Baweja
John Abraham
Rishi Kapoor
Kajal Aggarwal
Adil Hussain
Jackie Shroff
Malaika Arora
Shah Rukh Khan
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Mithun Chakraborty
Rishi Kapoor
Ronit Roy
Ayesha Takia
Abhishek Bachchan
Akshay Kumar
Ayesha Jhulka
Sanjay Dutt
Ayushmann Khurrana
Aseel Adel
Ajay Devgn
Jayshree Arora
Diwakar Pathak
Sushmita Sen
Vivek Oberoi
Ayushmann Khurrana
Abhishek Bachchan
Zeenat Aman
Sanjay Dutt
Arbaaz Khan

Raj Tara
Amitabh Bachchan
Nandita Das
Sanjay Dutt
Abhay Deol
Rahul Bose
Shiv Darshan
Saif Ali Khan
Jimmy Sharma
Fardeen Khan
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Sunny Leone
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Bhushan Agarwal
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Emraan Hashmi
Hema Malini
Sidharth Malhotra
Isha Koppikar
Bobby Deol
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Anupam Kher
Amitabh Bachchan
Arjun Rampal
Sunil Shetty
Sridevi
Akshay Kumar
Manisha Koirala
Mona Ambegaonkar
Arshad Warsi
Amitabh Bachchan
Jimmy Sheirgill
Arjun Rampal
Shah Rukh Khan
Aamir Khan
Shilpa Shetty Kundra
Priyanka Chopra
Gul Panag
Sharman Joshi
Rajeev Khandelwal
Kareena Kapoor
Sunil Shetty
Sharib Hashmi
Deepika Padukone
Inaamulhaq
Kapil Sharma
Aditya Roy Kapoor
Jayesh Raj
Reef Karim
Shahid Kapoor
Aftab Shivdasani
John Abraham
John Abraham
Arjun Rampal
Arshad Warsi
Nawazuddin Siddiqui
Avinash Dhyani
Bidita Bag
Atmaram Bhende
Govinda
Shubham
Jimmy Sheirgill
Pulkit Samrat
Pulkit Samrat
Siddharth Koirala

Rushali Arora
Rajveer Ankur Singh
Akshay Kumar
Akshay Kumar
Manoj Bajpayee
Abhishek Bachchan
Akshaye Khanna
Sharman Joshi
Ajay Devgn
Sarita Joshi
Manoj Bajpayee
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Salman Khan
Naresh Sharma
Mohan Azaad
Tusshar Kapoor
Utkarsh Sharma
Aamir Khan
Vidya Balan
Sunny Deol
Shiney Ahuja
Sanaya Irani
Riya Vij
Isha Koppikar
Pankaj Tripathi
Gautam Gupta
Saif Ali Khan
John Abraham
Amitabh Bachchan
Akshay Kumar
Ranveer Singh
Dimple Kapadia
Ajay Devgn
Ajay Devgn
Ajay Devgn
Deepika Amin
Tusshar Kapoor
Akshay Kumar
Imran Khan
Vinay Pathak
Vivek Oberoi
Urvashi Rautela
Vikram Dasu
Kunal Khemu
Arshad Warsi
Kartik Aaryan
Madhuri Dixit
Kay Kay Menon
Sampat Pal Devi
Ranveer Singh
Dino Morea
Ranveer Singh
Mithun Chakraborty
Hrithik Roshan
Amita Pathak
Jimmy Sheirgill
Sahil Anand
Tabu
Shraddha Kapoor
Paoli Dam
Ajay Devgn
Rajkummar Rao
Talha Arshad Reshi
Mukesh Khanna

Diana Penty
Saif Ali Khan
Anay
Shah Rukh Khan
Sonakshi Sinha
Nawazuddin Siddiqui
Jackie Shroff
Sidharth Malhotra
Shraddha Kapoor
Jimmy Sheirgill
Nikhil Dwivedi
Jay Bhanushali
Lee Byford
Nana Patekar
Akshay Kumar
Mimoh Chakraborty
Aniket Vishwasrao
Tabu
Makrand Deshpande
Naman Jain
Shawar Ali
Babbu Mann
Kay Kay Menon
Adhyayan Suman
Kajol
Sharman Joshi
Gul Panag
Bobby Deol
Suraj Pancholi
Sohail Khan
Kareena Kapoor
Tiger Shroff
Ganesh Acharya
Juanna Sanghvi
Rani Mukerji
Sumeet Vyas
Alia Bhatt
Ajay Devgn
Gurmeet Ram Rahim Singh
Irrfan Khan
Mallika Sherawat
Onjolee Nair
Akshay Kumar
Vivek Oberoi
Ranvir Shorey
Zara Sheikh
Naseeruddin Shah
Karan Kundrra
Vatsal Sheth
Adil Hussain
Akshay Kumar
Akshay Kumar
Akshay Kumar
Akshaye Khanna
Prit Kamani
Anupam Kher
Saif Ali Khan
Arshad Warsi
Tusshar Kapoor
Shah Rukh Khan
Karanvir Bohra
Akshay Kumar
Arjun Rampal
Omkar Bhatkar
Varun Dhawan
Saif Ali Khan

Akshaye Khanna
Gulshan Devaiah
Tisca Chopra
Juhi Chawla
Gulshan Grover
Imran Khan
Shakti Anand
Sunny Deol
Sohail Khan
Arjun Rampal
Vivek Sudershan
Arjun Kapoor
Jaz Pandher
Kirti Kulhari
Arjun Rampal
Dino Morea
Akshay Kumar
Ashmit Patel
Manoj Bajpayee
Shreyas Talpade
Amarjeet
Naseeruddin Shah
Madhavan
Arjun Kapoor
Preity Zinta
Sara Loren
Krishna Chaturvedi
Dino Morea
Rishi Verma
Shahid Kapoor
Mimoh Chakraborty
Manish Anand
Vidya Balan
Akshay Oberoi
Vinay Pathak
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Sanjeev Bhaskar
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Shahid Kapoor
Sidharth Malhotra
Amit Sadh
Naseeruddin Shah
Ranbir Kapoor
Govinda
Chiranjeevi
Priyanka Chopra
Salman Khan
Rati Agnihotri
Fardeen Khan
Manoj Bajpayee
Javed Jaffrey
Purab Kohli
Rhea Chakraborty
Harish Chhabra
Mohit Ahlawat
Feroz Khan
Emraan Hashmi
Amardeep Insan
Emraan Hashmi

Vivek Oberoi
Aishwarya Rai Bachchan
Ravi Kishan
Arbaaz Khan
Boman Irani
Sanjay Suri
Abhishek Bachchan
John Abraham
Rishi Kapoor
Richa Chadha
Harshvardhan Deo
Nassar Abdulla
Mimoh Chakraborty
Bipasha Basu
Sunny Deol
Sunny Gill
Hrithik Roshan
Bipasha Basu
Victor Banerjee
Naseeruddin Shah
Dharmendra
Akshay Kumar
Arshad Warsi
Kangana Ranaut
Varun Dhawan
Sadhana Singh
Neha Dhupia
Nishikant Kamat
Vidyut Jammwal
Pulkit Samrat
Kamal Adib
Fardeen Khan
Hrithik Roshan
Vinay Pathak
Ajay Devgn
Saif Ali Khan
Aditya Srivastava
Kartik Aaryan
Amitabh Bachchan
Aishwarya Devan
Amitabh Bachchan
Shahid Kapoor
John Abraham
Sanjay Mishra
Om Puri
Vidya Balan
Eesha Agarwal
Rajkummar Rao
Amit Hingorani
Shah Rukh Khan
Varun Dhawan
Kunal Khemu
Shahid Kapoor
Sidharth Malhotra
John Abraham
Mahek Chahal
Shiv Darshan
Rati Agnihotri
Siddhartha Gupta
Irrfan Khan
Himesh Reshammiya
Lucky Ali
Juhi Babbar
Suhaas Ahuja
Raqesh Bapat
Kunal Kapoor

Shahbaaz Khan
Akshay Kumar
Vinay Pathak
Amitabh Bachchan
Kiron Kher
Shilpa Shetty Kundra
Prabhu Deva
Gurmeet Choudhary
Rahul Jaiswal
Akshay Kumar
Hazel Croney
Sunny Deol
Supriya Pathak
Sonam Kapoor
Anupam Kher
Shiney Ahuja
Sunny Deol
Fardeen Khan
Simer Motiani
Himanshu Malik
Amitabh Bachchan
Salman Khan
Ranveer Singh
Mallika Sherawat
Kapil Sharma
Jackie Shroff
Bobby Deol
Shahid Kapoor
Vivek Oberoi
Vivek Oberoi
Arshad Warsi
Hrithik Roshan
Sanjay Dutt
Aftab Shivdasani
Dia Mirza
Rekha
Kannan Arunachalam
Juhi Chawla
Manoj Bajpayee
Sohail Khan
Rekha
Shefali Shah
Tusshar Kapoor
Ram Kapoor
Aishwarya Rai Bachchan
Geetanjali Thapa
Arshad Warsi
Rekha
Siddharth Gupta
Lewis Tan
Rajpal Yadav
Vijay Raaz
Tusshar Kapoor
Tusshar Kapoor
Tusshar Kapoor
Riteish Deshmukh
Salman Khan
Amitabh Bachchan
Sanjay Dutt
Rani Mukerji
Randeep Hooda
Ranveer Singh
Neil Nitin Mukesh
Sanjay Dutt
Farooq Shaikh
Avinash Tiwary

Sunny Deol
Monali Thakur
Hrithik Roshan
Sanjay Dutt
Armaan Jain
Rituparna Sengupta
Manoj Amarnani
Kay Kay Menon
Aftab Shivdasani
Govinda
Dharmendra
Aahana Kumra
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Zeher
Zero (2018 film)
Zid (2014 film)
Zila Ghaziabad
Zinda (film)
Zindaggi Rocks
Zindagi 50-50
Zindagi Na Milegi Dobara
Zindagi Tere Naam
Zokkomon
Zor Lagaa Ke...Haiya!

operators

```
In [97]: #Arithmetic Operators  
100-marks_series
```

```
Out[97]: Maths      33  
English    0  
Hindi      18  
Sanskrit   2  
Science    67  
sst        10  
Name: School Marks, dtype: int64
```

```
In [98]: 50-vk
```

```
Out[98]: match_no  
87      50  
211     50  
207     50  
206     50  
91      50  
..  
164    -50  
120    -50  
123    -58  
126    -59  
128    -63  
Name: runs, Length: 215, dtype: int64
```

```
In [102... 100+marks_series
```

```
Out[102]: Maths      167  
English    200  
Hindi      182  
Sanskrit   198  
Science    133  
sst        190  
Name: School Marks, dtype: int64
```

```
In [196... #Relational operators(Broadcasting)  
vk>=50
```

```
Out[196]: match_no  
1      False  
2      False  
3      False
```

```

4      False
5      False
...
211    False
212    False
213     True
214    False
215    False
Name: runs, Length: 215, dtype: bool

```

```

In [105]: subs<=20

```

```

Out[105]: 0      False
          1      False
          2      False
          3      False
          4      False
          ...
          360    False
          361    False
          362    False
          363    False
          364    False
Name: Subscribers gained, Length: 365, dtype: bool

```

Boolean indexing on series

```

In [197]: #find nos of 50 and 50+ scores of Vk
          vk[vk>=50]

```

```

Out[197]: match_no
          15      50
          34      58
          41      71
          44      56
          45      67
          52      70
          57      57
          68      73
          71      51
          73      58
          74      65
          80      57
          81      93
          82      99
          85      56
          97      67
          99      73
         103      51
         104      62
         110      82
         116      75
         117      79
         119      80
         120     100
         122      52
         123     108
         126     109
         127      75
         128     113
         129      54
         131      54
         132      62
         134      64

```

```

137      55
141      58
144      57
145      92
148      68
152      70
160      84
162      67
164     100
175      72
178      90
182      50
188      72
197      51
198      53
209      58
213      73
Name: runs, dtype: int64

```

```
In [108... vk[vk>=50].size
```

```
Out[108]: 50
```

```
In [ ]: # find number of ducks
```

```
In [109... vk[vk==0]
```

```
Out[109]: match_no
87      True
211     True
207     True
206     True
91      True
...
164    False
120    False
123    False
126    False
128    False
Name: runs, Length: 215, dtype: bool
```

```
In [112... vk[vk==0].size
```

```
Out[112]: 9
```

```
In [113... #subscribers more than 200
subs[subs>200]
```

```
Out[113]: 165     225
166     249
167     265
168     306
169     261
170     222
225     224
226     254
227     214
228     236
229     261
230     247
231     207
232     254
233     301
234     233
```

```
240    202
246    259
248    213
249    210
252    216
275    228
276    237
277    276
279    290
280    295
281    245
282    241
283    267
284    269
285    211
287    206
288    202
290    236
291    222
292    203
312    230
318    244
324    243
325    227
326    259
330    396
331    312
332    268
333    229
337    221
338    225
339    221
340    202
344    276
345    258
346    219
347    212
351    220
354    204
358    210
359    209
360    231
361    226
Name: Subscribers gained, dtype: int64
```

```
In [114... subs[subs>200].size
```

```
Out[114]: 59
```

```
In [117... #actors who have done more than 20 movies
movies.value_counts()
```

```
Out[117]: Akshay Kumar          48
Amitabh Bachchan          45
Ajay Devgn                38
Salman Khan               31
Sanjay Dutt               26
..
Diana Penty               1
Mukesh Khanna             1
Talha Arshad Reshi       1
Paoli Dam                 1
Meghan Jadhav             1
Name: lead, Length: 566, dtype: int64
```

```
In [119... num_movies=movies.value_counts()
```

```
In [120... num_movies>20
```

```
Out[120]: Akshay Kumar      True
Amitabh Bachchan    True
Ajay Devgn          True
Salman Khan         True
Sanjay Dutt         True
...
Diana Penty        False
Mukesh Khanna       False
Talha Arshad Reshi  False
Paoli Dam           False
Meghan Jadhav       False
Name: lead, Length: 566, dtype: bool
```

Some Important Series Method

```
In [198... vk
```

```
Out[198]: match_no
1         1
2        23
3        13
4        12
5         1
..
211        0
212        0
213        73
214        25
215         7
Name: runs, Length: 215, dtype: int64
```

```
In [199... #astype
import sys
sys.getsizeof(vk)
```

```
Out[199]: 11752
```

```
In [200... vk.astype('int16')
```

```
Out[200]: match_no
1         1
2        23
3        13
4        12
5         1
..
211        0
212        0
213        73
214        25
215         7
Name: runs, Length: 215, dtype: int16
```

```
In [131... sys.getsizeof(vk.astype('int16'))
```

```
Out[131]: 10462
```

```
In [201... #between
```



```
vk[vk.between(51, 99)]
```

```
Out[201]: match_no
          34      58
          41      71
          44      56
          45      67
          52      70
          57      57
          68      73
          71      51
          73      58
          74      65
          80      57
          81      93
          82      99
          85      56
          97      67
          99      73
         103      51
         104      62
         110      82
         116      75
         117      79
         119      80
         122      52
         127      75
         129      54
         131      54
         132      62
         134      64
         137      55
         141      58
         144      57
         145      92
         148      68
         152      70
         160      84
         162      67
         175      72
         178      90
         188      72
         197      51
         198      53
         209      58
         213      73
Name: runs, dtype: int64
```

```
In [202]: vk[vk.between(51, 99)].size
```

```
Out[202]: 43
```

```
In [136]: #clip
          subs
```

```
Out[136]: 0      48
          1      57
          2      40
          3      43
          4      44
          ...
         360    231
         361    226
         362    155
         363    144
```

```
364      172
Name: Subscribers gained, Length: 365, dtype: int64
```

```
In [138... subs.clip(100,200)
```

```
Out[138]: 0      100
          1      100
          2      100
          3      100
          4      100
          ...
          360    200
          361    200
          362    155
          363    144
          364    172
```

```
Name: Subscribers gained, Length: 365, dtype: int64
```

```
In [140... #drop_duplicates
temp=pd.Series([1,1,2,2,3,3,4,4])
temp
```

```
Out[140]: 0      1
          1      1
          2      2
          3      2
          4      3
          5      3
          6      4
          7      4
dtype: int64
```

```
In [143... temp.drop_duplicates
```

```
Out[143]: <bound method Series.drop_duplicates of 0      1
          1      1
          2      2
          3      2
          4      3
          5      3
          6      4
          7      4
dtype: int64>
```

```
In [144... temp.drop_duplicates(keep='last')
```

```
Out[144]: 1      1
          3      2
          5      3
          7      4
dtype: int64
```

```
In [145... movies.drop_duplicates()
```

```
Out[145]: movie
1920 (film)      Rajniesh Duggall
1920: London      Sharman Joshi
1920: The Evil Returns      Vicky Ahuja
1971 (2007 film)      Manoj Bajpayee
2 States (2014 film)      Alia Bhatt
          ...
Yeh Saali Aashiqui      Vardhan Puri
Zed Plus      Vinod Acharya
Zid (2014 film)      Mannara Chopra
Zindagi 50-50      Veena Malik
Zor Lagaa Ke...Haiya!      Meghan Jadhav
Name: lead, Length: 566, dtype: object
```

```
In [148...] temp.duplicated()

Out[148]:
0    False
1     True
2    False
3     True
4    False
5     True
6    False
7     True
dtype: bool

In [149...] temp.duplicated().sum()

Out[149]: 4

In [203...] vk.duplicated().sum()

Out[203]: 137

In [151...] temp = pd.Series([1,2,3,np.nan,5,6,np.nan,8,np.nan,10])
temp

Out[151]:
0    1.0
1    2.0
2    3.0
3    NaN
4    5.0
5    6.0
6    NaN
7    8.0
8    NaN
9   10.0
dtype: float64

In [153...] temp.size

Out[153]: 10

In [154...] temp.count()

Out[154]: 7

In [204...] #isnull
vk.isnull().sum()

Out[204]: 0

In [160...] temp.isnull().sum()

Out[160]: 3

In [161...] #dropna
temp.dropna()

Out[161]:
0    1.0
1    2.0
2    3.0
4    5.0
5    6.0
7    8.0
```

```
9      10.0
dtype: float64
```

```
In [167]: #fillna
temp.fillna(0) #filled missing values will be replaced by 0
```

```
Out[167]: 0      1.0
          1      2.0
          2      3.0
          3      0.0
          4      5.0
          5      6.0
          6      0.0
          7      8.0
          8      0.0
          9     10.0
dtype: float64
```

```
In [164]: temp.mean()
```

```
Out[164]: 5.0
```

```
In [166]: temp.fillna(temp.mean()) #filled missing values will be replaced by mean value
```

```
Out[166]: 0      1.0
          1      2.0
          2      3.0
          3      5.0
          4      5.0
          5      6.0
          6      5.0
          7      8.0
          8      5.0
          9     10.0
dtype: float64
```

```
In [205]: #isin
vk
```

```
Out[205]: match_no
          1      1
          2     23
          3     13
          4     12
          5      1
          ..
        211      0
        212     20
        213     73
        214     25
        215      7
Name: runs, Length: 215, dtype: int64
```

```
In [206]: #vk out at 49 or 99 in how many matches
(vk==49) | (vk==99)
```

```
Out[206]: match_no
          1    False
          2    False
          3    False
          4    False
          5    False
          ...
        211    False
        212    False
        213    False
```

```
214     False
215     False
Name: runs, Length: 215, dtype: bool
```

```
In [207... vk[(vk==49) | (vk==99)]
```

```
Out[207]: match_no
82      99
86      49
Name: runs, dtype: int64
```

```
In [208... vk[vk.isin([49,99])]
```

```
Out[208]: match_no
82      99
86      49
Name: runs, dtype: int64
```

```
In [177... movies
```

```
Out[177]: movie
1920 (film)                Rajniesz Duggall
1920: London                Sharman Joshi
1920: The Evil Returns      Vicky Ahuja
1971 (2007 film)           Manoj Bajpayee
2 States (2014 film)        Alia Bhatt
...
Zindagi 50-50              Veena Malik
Zindagi Na Milegi Dobara   Hrithik Roshan
Zindagi Tere Naam          Mithun Chakraborty
Zokkomon                   Darsheel Safary
Zor Lagaa Ke...Haiya!      Meghan Jadhav
Name: lead, Length: 1500, dtype: object
```

```
In [185... #apply
movies.apply(lambda x:x.split()[0].upper())
```

```
Out[185]: movie
1920 (film)                RAJNIESH
1920: London                SHARMAN
1920: The Evil Returns      VICKY
1971 (2007 film)           MANOJ
2 States (2014 film)        ALIA
...
Zindagi 50-50              VEENA
Zindagi Na Milegi Dobara   HRITHIK
Zindagi Tere Naam          MITHUN
Zokkomon                   DARSHEEL
Zor Lagaa Ke...Haiya!      MEGHAN
Name: lead, Length: 1500, dtype: object
```

```
In [186... subs
```

```
Out[186]: 0      48
1      57
2      40
3      43
4      44
...
360    231
361    226
362    155
363    144
364    172
Name: Subscribers gained, Length: 365, dtype: int64
```

```
In [187... subs.mean()
```

```
Out[187]: 135.64383561643837
```

```
In [188]: subs.apply(lambda x: 'good day' if x>subs.mean() else 'bad day')
```

```
Out[188]: 0      bad day
          1      bad day
          2      bad day
          3      bad day
          4      bad day
          ...
          360    good day
          361    good day
          362    good day
          363    good day
          364    good day
          Name: Subscribers gained, Length: 365, dtype: object
```

```
In [219]: #copy
```

```
Out[219]: match_no
          1      100
          2       23
          3       13
          4       12
          5        1
          ...
          211      0
          212      20
          213      73
          214      25
          215       7
          Name: runs, Length: 215, dtype: int64
```

```
In [213]: new=vk.head()
          new
```

```
Out[213]: match_no
          1        1
          2       23
          3       13
          4       12
          5        1
          Name: runs, dtype: int64
```

```
In [231]: # if we want to edit index 1 value as 100
          new[1]=1
```

```
In [222]: new
```

```
Out[222]: match_no
          1        1
          2       23
          3       13
          4       12
          5        1
          Name: runs, dtype: int64
```

```
In [223]: vk
```

```
Out[223]: match_no
          1        1
          2       23
          3       13
          4       12
          5        1
```

```
..
211    0
212    20
213    73
214    25
215     7
Name: runs, Length: 215, dtype: int64
```

```
In [228.. #copy
new=vk.head().copy() #it wont affect original dataset
```

```
In [225.. new[1]=100
```

```
In [229.. new
```

```
Out[229]: match_no
1      100
2       23
3       13
4       12
5        1
Name: runs, dtype: int64
```

```
In [233.. vk
```

```
Out[233]: match_no
1         1
2        23
3        13
4        12
5         1
..
211        0
212       20
213       73
214       25
215        7
Name: runs, Length: 215, dtype: int64
```

```
In [ ]:
```

```
In [ ]:
```