

day-2-pandas-series-1

December 31, 2022

1 Importing Pandas

```
[18]: import pandas as pd
```

2 Pandas Series

A Pandas Series is like a column in a table. It is a 1-D array holding data of any type.**

3 Creating a Series from lists

```
[19]: #using String  
country = ['india', 'USA', 'Nepal', 'Russia']  
pd.Series(country)
```

```
[19]: 0    india  
      1     USA  
      2    Nepal  
      3    Russia  
      dtype: object
```

```
[20]: numbers = [13,14,15,16,70,89,85] #using integers  
pd.Series(numbers)
```

```
[20]: 0     13  
      1     14  
      2     15  
      3     16  
      4     70  
      5     89  
      6     85  
      dtype: int64
```

4 Custom Index

```
[21]: # custom index
marks = [67,57,89,100]
subjects = ['maths','english','science','hindi']
```

```
[22]: result = pd.Series(marks,index=subjects)
result
```

```
[22]: maths      67
      english   57
      science   89
      hindi    100
      dtype: int64
```

Give a specific series name

```
[23]: result = pd.Series(marks,index=subjects,name='Rohit Verma')
result
```

```
[23]: maths      67
      english   57
      science   89
      hindi    100
      Name: Rohit Verma, dtype: int64
```

5 Creating a Series from dict

```
[24]: marks = {
      'Maths':67,
      'English':57,
      'Science':89,
      'Hindi':100,
      'Data Science':96
      }
marks
```

```
[24]: {'Maths': 67, 'English': 57, 'Science': 89, 'Hindi': 100, 'Data Science': 96}
```

```
[25]: dic=pd.Series(marks,name='Rohit_Result')
dic
```

```
[25]: Maths      67
      English   57
      Science   89
      Hindi    100
      Data Science  96
```

Name: Rohit_Result, dtype: int64

6 Some attribute of a Series pandas

size,dtype,is_unique,name,index,values

```
[26]: #size  
dic
```

```
[26]: Maths          67  
      English       57  
      Science       89  
      Hindi         100  
      Data Science   96  
      Name: Rohit_Result, dtype: int64
```

```
[27]: dic.size
```

```
[27]: 5
```

```
[28]: #dtype  
dic.dtype
```

```
[28]: dtype('int64')
```

```
[29]: #is_unique, means all the element is present in the series is unique  
dic.is_unique
```

```
[29]: True
```

```
[30]: pd.Series([1,1,2,3,4,5,5,6]).is_unique #it contain some same values
```

```
[30]: False
```

```
[31]: #index  
dic.index
```

```
[31]: Index(['Maths', 'English', 'Science', 'Hindi', 'Data Science'], dtype='object')
```

```
[32]: #values  
dic.values
```

```
[32]: array([ 67,  57,  89, 100,  96])
```

7 Series using read_csv file

```
[33]: #here i have random number file download from campus x
num=pd.read_csv("/content/subs.csv",squeeze=True)
num
#generally pandas load csv file and save them in data frame
↳that's why we use 'squeeze'parameter
```

```
[33]: 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
```

```
[34]: #i have already download two file from campus x youtube channel it's 'movie' and
      ↳'virat kohli matches runs'
vk=pd.read_csv("/content/kohli_ipl.csv",squeeze=True,index_col='match_no') #in
      ↳this i use 'index_col' parameter to give specific index name
vk
```

```
[34]: 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
```

```
[35]: movie=pd.read_csv("/content/bollywood.csv",squeeze=True,index_col="movie")
movie
```

```
[35]: 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

8 Pandas series method

`head()`, `tail()`, `count()`, `value_counts()`, `sort_values()`, `sort_index()`, `inplace-parameter`

```
[36]: movie.head() #check the top 5 record's or give the specific number in head()
      ↳ like head(4)
```

```
[36]: 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
Name: lead, dtype: object
```

```
[37]: movie.head(4)
```

```
[37]: movie
Uri: The Surgical Strike          Vicky Kaushal
Battalion 609                    Vicky Ahuja
The Accidental Prime Minister (film) Anupam Kher
Why Cheat India                  Emraan Hashmi
Name: lead, dtype: object
```

```
[38]: #check tail()
movie.tail()
```

```
[38]: movie
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, dtype: object
```

```
[39]: #value_counts is count the number of times
movie.value_counts()
```

```
[39]: 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
```

```
[40]: #sample is give the random records from the series
      movie.sample()
```

```
[40]: movie
      Goal (2007 Hindi film)    John Abraham
      Name: lead, dtype: object
```

```
[41]: movie.sample(5)
```

```
[41]: movie
      Muskaan                Aftab Shivdasani
      Deadline: Sirf 24 Ghante    Rajit Kapoor
      Sharafat Gayi Tel Lene      Zayed Khan
      Shart: The Challenge        Tusshar Kapoor
      My Wife's Murder            Anil Kapoor
      Name: lead, dtype: object
```

```
[42]: #sorting the values
      vk.sort_values()
```

```
[42]: 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
```

```
[43]: vk.sort_values(ascending=False) #ascending is the parameter for values
      ↪ascending and descending
```

```
[43]: 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
```

```
[44]: # sort_index
      vk.sort_index(ascending=False)
```

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

```
[45]: #inplace is the, if you want to change you'r original series than you can you
      ↪the inplace parameter
      vk.sort_index(inplace=True)
      vk
```

```
[45]: 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
```

9 We can apply the some mathematicla operation on the series

count(),min(),max(),sum(),var(),median(),std(),mean(),describe()

```
[46]: #count()
vk.count()
```

```
[46]: 215
```

```
[47]: #min
vk.min()
```

```
[47]: 0
```

```
[48]: #max()
vk.max()
```

```
[48]: 113
```

```
[49]: vk.sum()
```

```
[49]: 6634
```

```
[50]: #mean
vk.mean()
```

```
[50]: 30.855813953488372
```

```
[51]: #median
vk.median()
```

```
[51]: 24.0
```

```
[52]: #std
vk.std()
```

```
[52]: 26.22980132830278
```

```
[53]: #var
vk.var()
```



```
[53]: 688.0024777222343
```

```
[54]: vk.describe()
```

```
[54]: 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
```

10 Series indexing

```
[55]: vk[5]
```

```
[55]: 1
```

```
[56]: movie[4]
```

```
[56]: 'Mona Ambegaonkar'
```

```
[57]: movie[-2]
```

```
[57]: 'Ajay Devgn'
```

```
[58]: movie[45]
```

```
[58]: 'Natalia Janoszek'
```

11 Slicing Series

```
[59]: vk[5:16] #we give the index 5 to 15 for slicing
```

```
[59]: match_no  
      6      9  
      7     34  
      8      0  
      9     21  
     10      3  
     11     10  
     12     38  
     13      3
```

```

14    11
15    50
16     2
Name: runs, dtype: int64

```

```
[60]: ## negative slicing
vk[-5:]
```

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

```

```
[61]: movie[:,2] #[start : End : steps]
```

```
[61]: movie
Uri: The Surgical Strike                Vicky Kaushal
The Accidental Prime Minister (film)    Anupam Kher
Evening Shadows                        Mona Ambegaonkar
Fraud Saiyaan                          Arshad Warsi
Manikarnika: The Queen of Jhansi       Kangana Ranaut
...
Raaz (2002 film)                       Dino Morea
Waisa Bhi Hota Hai Part II             Arshad Warsi
Kaante                                 Amitabh Bachchan
Aankhen (2002 film)                   Amitabh Bachchan
Company (film)                        Ajay Devgn
Name: lead, Length: 750, dtype: object

```

Fancy indexing

```
[62]: vk[[1,7,8,122]] # in this we give the specific index values
```

```
[62]: match_no
1      1
7     34
8      0
122   52
Name: runs, dtype: int64

```

```
[63]: movie[[4,8,2,155]]
```

```
[63]: movie
Evening Shadows                Mona Ambegaonkar

```

Manikarnika: The Queen of Jhansi	Kangana Ranaut
The Accidental Prime Minister (film)	Anupam Kher
Bhaiaji Superhit	Sunny Deol

Name: lead, dtype: object

indexing with labels

```
[64]: movie["Bhaiaji Superhit"]
```

```
[64]: 'Sunny Deol'
```

```
[65]: movie['Evening Shadows']
```

```
[65]: 'Mona Ambegaonkar'
```

12 Write the Series(Editing Series)

```
[66]: dic
```

```
[66]: Maths          67
      English        57
      Science         89
      Hindi          100
      Data Science    96
      Name: Rohit_Result, dtype: int64
```

```
[69]: # editing the values by using the index
      dic[0] = 89      #in this we are change the 'maths' vlues 67 to 89
      dic
```

```
[69]: Maths          89
      English        57
      Science         89
      Hindi          100
      Data Science    96
      Name: Rohit_Result, dtype: int64
```

```
[72]: # what if an index does not exist
      dic['Social Science'] = 45  #if index not present in the series then it is
      ↪autometcally create new index and value
      dic
```

```
[72]: Maths          89
      English        57
      Science         89
      Hindi          100
```

```
Data Science      96
Social Science    45
Name: Rohit_Result, dtype: int64
```

```
[73]: runs = [44,58,63,82,63,45]
run=pd.Series(runs)
run
```

```
[73]: 0    44
      1    58
      2    63
      3    82
      4    63
      5    45
      dtype: int64
```

Slicing

```
[74]: run[2:4]
```

```
[74]: 2    63
      3    82
      dtype: int64
```

```
[76]: run[2:4] = 100
run
```

```
[76]: 0    44
      1    58
      2   100
      3   100
      4    63
      5    45
      dtype: int64
```

Fancy indexing

```
[78]: run[[0,2,5]] = [100,100,100]
run
```

```
[78]: 0    100
      1    58
      2    100
      3    100
      4    63
      5    100
      dtype: int64
```

Editing the series using index label

```
[79]: movie
```

```
[79]: 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
```

```
[81]: movie['Uri: The Surgical Strike'] = "Rohit Verma"
movie                                     #first index uri movie value change
```

```
[81]: movie
Uri: The Surgical Strike          Rohit Verma
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
```

12.1 Series with Python Functionalities

len,type,dir,sorted,max,min

```
[83]: print(len(movie))
```

1500

```
[84]: print(type(movie))
```

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

```
[ ]: print(dir(movie))
```

```
[ ]: print(sorted(movie))
```

```
[90]: print(min(dic))
```

45

```
[89]: print(max(dic))
```

100

13 Type Conversion

```
[91]: #we have series dic  
dic
```

```
[91]: Maths          89  
      English       57  
      Science       89  
      Hindi         100  
      Data Science   96  
      Social Science 45  
      Name: Rohit_Result, dtype: int64
```

```
[92]: #converting this series into list  
list(dic)
```

```
[92]: [89, 57, 89, 100, 96, 45]
```

```
[93]: #converting this series into dic  
dict(dic)
```

```
[93]: {'Maths': 89,  
      'English': 57,  
      'Science': 89,  
      'Hindi': 100,  
      'Data Science': 96,  
      'Social Science': 45}
```

Membership Operator

```
[94]: movie
```

```
[94]: movie  
      Uri: The Surgical Strike          Rohit Verma  
      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

```
[97]: "Uri: The Surgical Strike" in movie #if the value present in the series it_
      ↪give the 'True' other "False"
```

[97]: True

```
[99]: "Radhe" in movie #because radhe movie not present in the movie series
```

[99]: False

```
[ ]: #looping
for i in movie:
    print(i)
```

14 Arithmetic operator use in the series

```
[103]: dic
```

```
[103]: Maths          89
      English         57
      Science         89
      Hindi           100
      Data Science     96
      Social Science   45
      Name: Rohit_Result, dtype: int64
```

```
[104]: #addition
      100 + dic
```

```
[104]: Maths          189
      English         157
      Science         189
      Hindi           200
      Data Science     196
      Social Science   145
      Name: Rohit_Result, dtype: int64
```

```
[107]: vk
```

```
[107]: 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
```

```
[108]: #Relastional operator
      vk >=50
```

```
[108]: 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
```

15 Boolean Indexing on Series

```
[109]: # Find no of 50's and 100's scored by kohli
      vk[vk >= 50].size
```

```
[109]: 50
```

```
[112]: #find the number of match which in 0 run
      vk[vk ==0].size
```

```
[112]: 9
```

```
[114]: # Count number of match when virat run more than 90 run
      vk[vk > 90].size
```


[114]: 8

```
[117]: # find actors who have done more than 20 movies
movie_count=movie.value_counts()
movie_count
```

```
[117]: 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: 567, dtype: int64
```

```
[118]: movie_count[movie_count > 20]
```

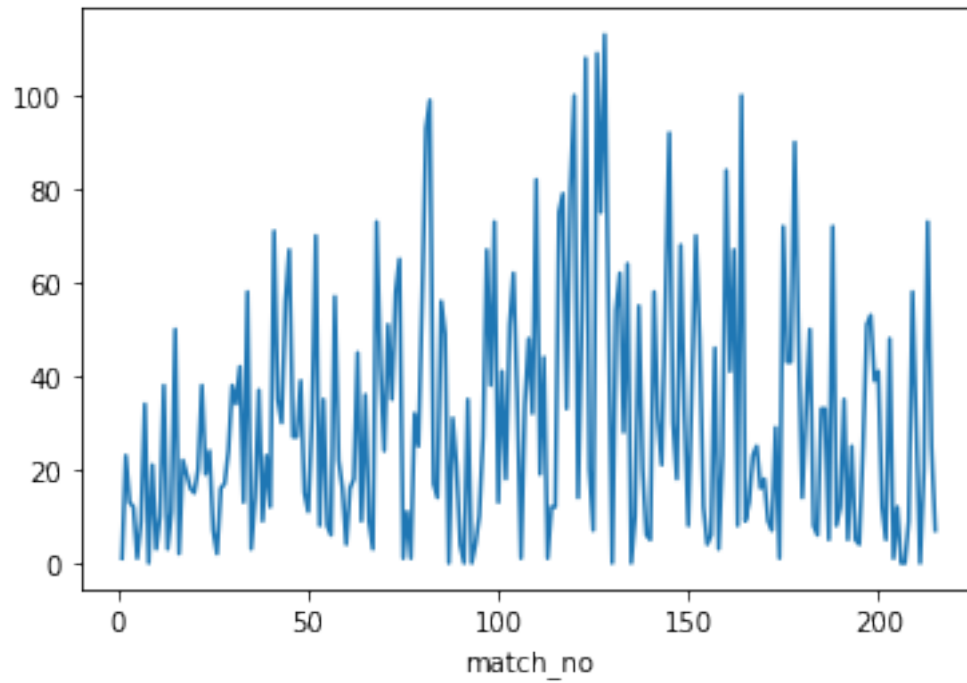
```
[118]: Akshay Kumar      48
      Amitabh Bachchan 45
      Ajay Devgn      38
      Salman Khan     31
      Sanjay Dutt      26
      Shah Rukh Khan   22
      Emraan Hashmi    21
      Name: lead, dtype: int64
```

16 Plotting Graphs on Series

Using the plot()

```
[120]: vk.plot()
```

```
[120]: <matplotlib.axes._subplots.AxesSubplot at 0x7ff45449df10>
```



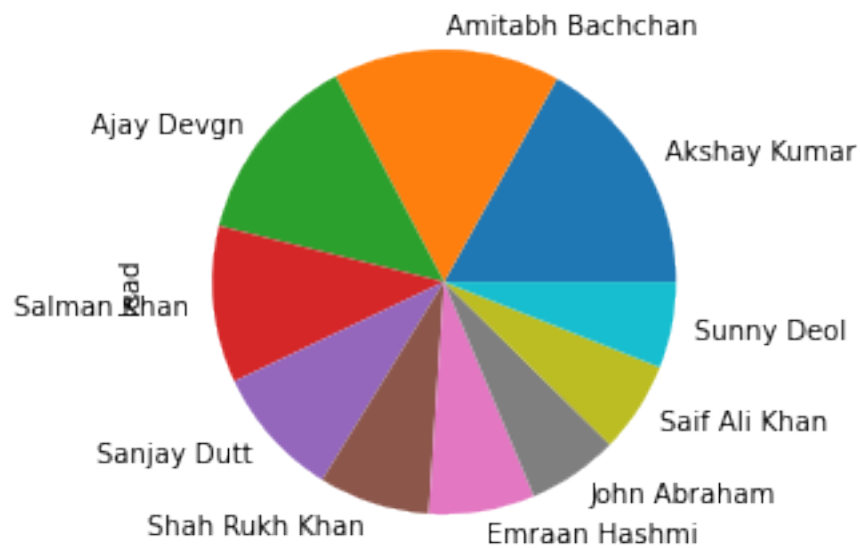
```
[124]: vk.max()
```

```
[124]: 113
```

17 plotting the pie chart on the series

```
[127]: movie.value_counts().head(10).plot(kind="pie") #using the 'kind' parameter
```

```
[127]: <matplotlib.axes._subplots.AxesSubplot at 0x7ff453eb06a0>
```



18 Some important method of a Series

astype, between, clip, drop_duplicates, isnull, dropna, fillna, isin, apply, copy

```
[129]: # astype
import sys
sys.getsizeof(vk)
```

[129]: 11752

```
[130]: sys.getsizeof(vk.astype('int16'))
```

[130]: 10462

```
[131]: # between
vk[vk.between(51,99)].size
```

[131]: 43

get the vlaue between 100 to 200 using clip method

```
[132]: # clip
vk
```

```
[132]: 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

```

```
[134]: vk.clip(100,200) #get the vlaue between 100 to 200
```

```

[134]: match_no
1      100
2      100
3      100
4      100
5      100
...
211    100
212    100
213    100
214    100
215    100
Name: runs, Length: 215, dtype: int64

```

drop_duplicates

```

[142]: # drop_duplicates
import numpy as np
temp = pd.Series([1,1,2,2,3,3,4,4])
temp

```

```

[142]: 0      1
1      1
2      2
3      2
4      3
5      3
6      4
7      4
dtype: int64

```

```
[136]: temp.drop_duplicates(keep='last')
```

```
[136]: 1    1
      3    2
      5    3
      7    4
      dtype: int64
```

```
[137]: temp.duplicated().sum()
```

```
[137]: 4
```

```
[138]: vk.duplicated().sum()
```

```
[138]: 137
```

```
[140]: movie.drop_duplicates()
```

```
[140]: movie
      Uri: The Surgical Strike                      Rohit Verma
      Battalion 609                                Vicky Ahuja
      The Accidental Prime Minister (film)          Anupam Kher
      Why Cheat India                               Emraan Hashmi
      Evening Shadows                             Mona Ambegaonkar

      ...
      Sssshhh...                                   Tanishaa Mukerji
      Rules: Pyaar Ka Superhit Formula              Tanuja
      Right Here Right Now (film)                   Ankit
      Talaash: The Hunt Begins...                   Rakhee Gulzar
      The Pink Mirror                               Edwin Fernandes
      Name: lead, Length: 567, dtype: object
```

```
[143]: temp = pd.Series([1,2,3,np.nan,5,6,np.nan,8,np.nan,10])
      temp
```

```
[143]: 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
```

```
[144]: temp.size
```

```
[144]: 10
```

```
[145]: temp.count()
```

```
[145]: 7
```

isnull

```
[146]: temp.isnull().sum()
```

```
[146]: 3
```

dropna()

```
[147]: temp.dropna()
```

```
[147]: 0      1.0
      1      2.0
      2      3.0
      4      5.0
      5      6.0
      7      8.0
      9     10.0
      dtype: float64
```

fillna()

```
[148]: temp.fillna(temp.mean())
```

```
[148]: 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
```

isin

```
[149]: vk[(vk == 49) | (vk == 99)]
```

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

```
[150]: movie
```

```
[150]: movie
```

Uri: The Surgical Strike	Rohit Verma
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

```
[152]: movie[(movie=='Vicky Ahuja') | (movie=='Vivek Oberoi')]
```

```
[152]: movie
```

Battalion 609	Vicky Ahuja
Zila Ghaziabad	Vivek Oberoi
Jayantabhai Ki Luv Story	Vivek Oberoi
Grand Masti	Vivek Oberoi
Kismat Love Paisa Dilli	Vivek Oberoi
1920: The Evil Returns	Vicky Ahuja
Prince (2010 film)	Vivek Oberoi
Mission Istanbul	Vivek Oberoi
Home Delivery	Vivek Oberoi
Kisna: The Warrior Poet	Vivek Oberoi
Vaastu Shastra (film)	Vicky Ahuja
Dum (2003 Hindi film)	Vivek Oberoi
Saathiya (film)	Vivek Oberoi

Name: lead, dtype: object

```
[155]: movie[movie.isin(['Emraan Hashmi','Akshay Kumar'])]
```

```
[155]: movie
```

Why Cheat India	Emraan Hashmi
Kesari (film)	Akshay Kumar
Mission Mangal	Akshay Kumar
Housefull 4	Akshay Kumar
Good Newwz	Akshay Kumar
...	
Police Force: An Inside Story	Akshay Kumar
Tumsa Nahin Dekha: A Love Story	Emraan Hashmi
Andaaz	Akshay Kumar
Andaaz	Akshay Kumar

Awara Paagal Deewana Akshay Kumar
Name: lead, Length: 69, dtype: object

```
[156]: movie[movie.isin(['Emraan Hashmi', 'Akshay Kumar'])].count()
```

```
[156]: 69
```

copy

```
[157]: movie
```

```
[157]: movie
Uri: The Surgical Strike                      Rohit Verma
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
```

```
[158]: new_movie = movie.head()
```

```
[159]: new_movie
```

```
[159]: movie
Uri: The Surgical Strike                      Rohit Verma
Battalion 609                                  Vicky Ahuja
The Accidental Prime Minister (film)        Anupam Kher
Why Cheat India                               Emraan Hashmi
Evening Shadows                               Mona Ambegaonkar
Name: lead, dtype: object
```

```
[160]: new_movie[1] = "Om Shanti Om"
```

```
[162]: new_movie = movie.head().copy()
```

```
[163]: new_movie
```

```
[163]: movie
Uri: The Surgical Strike                      Rohit Verma
Battalion 609                                  Om Shanti Om
The Accidental Prime Minister (film)        Anupam Kher
```


Why Cheat India
Evening Shadows
Name: lead, dtype: object

Emraan Hashmi
Mona Ambegaonkar

[164]:

[]: