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PYTHON PANDAS TUTORIAL

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Mean Function in Python pandas (Dataframe, Row and column wise mean)

mean() – Mean Function in python pandas is used to calculate the arithmetic mean of a given set of numbers, mean of a data frame ,mean of column and mean of rows , lets see an example of each . We need to use the package name “statistics” in calculation of mean. In this tutorial we will learn,

- How to find the mean of a given set of numbers
- How to find mean of a dataframe



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- Median Function in pandas
- Mode Function in Pandas
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- Row bind in pandas
- column bind in pandas
- Assign new column to dataframe in pandas
- Group a dataframe in pandas
- Sort the List in python

- How to find the mean of a column in dataframe
- How to find row mean of a dataframe

Mean Function in Python

Simple mean function is shown below

```
1 # calculate arithmetic mean
2 Import statistics
3
4 print(statistics.mean([1,9,5,6,6,7]))
5 print(statistics.mean([4,-11,-5,16,5,7]))
```

output:

```
5.66666666667
2.66666666667
```

Mean of a dataframe:

Create dataframe

```
1 import pandas as pd
2 import numpy as np
3
4 #Create a DataFrame
5 d = {
6     'Name': ['Alisa', 'Bobby', 'Cathrine', 'Madonna', 'R
7     'Rahul', 'David', 'Andrew', 'Ajay', 'Teresa'],
8     'Score1': [62,47,55,74,31,77,85,63,42,32,71,57],
9     'Score2': [89,87,67,55,47,72,76,79,44,92,99,69]}
10
```

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- sort a dataframe in pandas
- sort a dataframe in pandas by index
- Cross tab in pandas
- Rank the dataframe in pandas
- Drop the duplicate row in pandas
- Find the duplicate rows in pandas
- Drop the row in pandas with conditions
- Drop or delete column in pandas
- Get maximum value of column in pandas
- Get minimum value of column in pandas
- select row with maximum and minimum value in pandas
- Get unique values of dataframe in Pandas
- Get list of column name in pandas

```
11
12 df = pd.DataFrame(d)
13 df
```

So the resultant dataframe will be

	Name	Score1	Score2
0	Alisa	62	89
1	Bobby	47	87
2	Cathrine	55	67
3	Madonna	74	55
4	Rocky	31	47
5	Sebastian	77	72
6	Jaquiline	85	76
7	Rahul	63	79
8	David	42	44
9	Andrew	32	92
10	Ajay	71	99
11	Teresa	57	69

Mean of the dataframe:

```
1 # mean of the dataframe
2 df.mean()
```

it will calculate the mean of the dataframe across columns so the output will be

```
Score1 58.0
Score2 73.0
dtype: float64
```

- Get unique values of a column in pandas
- Hierarchical indexing in pandas
- Index, Select, Filter dataframe in pandas
- Indexing with iloc, loc and ix in pandas
- Reshape wide to long in pandas
- Reshape long to wide in pandas
- Reshape Stack(), unstack() function in Pandas
- Create Pivot table in Pandas
- Scaling, normalizing a column in Pandas

Column Mean of the dataframe:

```
1 | # column mean of the dataframe
2 | df.mean(axis=0)
```

axis=0 argument calculates the column wise mean of the dataframe so the result will be

```
Score1 58.0
Score2 73.0
dtype: float64
```

Row Mean of the dataframe:

```
1 | # Row mean of the dataframe
2 | df.mean(axis=1)
```

axis=1 argument calculates the row wise mean of the dataframe so the result will be

```
0    75.5
1    67.0
2    61.0
3    64.5
4    39.0
5    74.5
```

```
6    80.5
7    71.0
8    43.0
9    62.0
10   85.0
11   63.0
dtype: float64
```

Calculate the mean of the specific Column

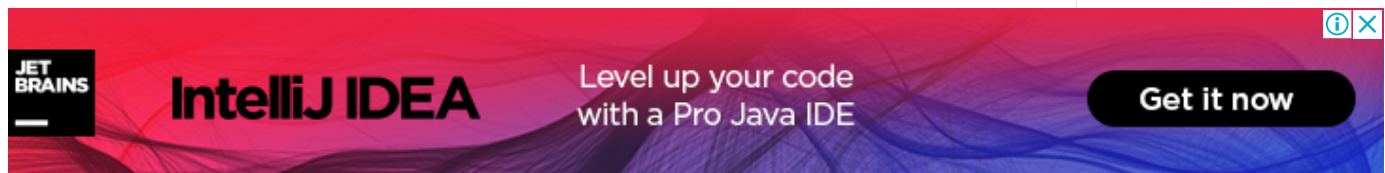
```
1 | # mean of the specific column
2 | df.loc[:, "Score1"].mean()
```

the above code calculates the mean of the "Score1" column so the result will be

58.0

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