

# How to Add a Total Row to Pandas DataFrame

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## RECOMMENDED CITATION

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To add a total row to a Pandas DataFrame, you first need to use the `pandas.DataFrame.sum()` method to generate the total for each column, and then use the `pandas.DataFrame.append()` method to add the totals to the bottom of the DataFrame. The result is a DataFrame with a new row containing the column totals. To make the total row more visible, you can use the `pandas.DataFrame.style.set_properties()` method to highlight the total row.

You can use the following basic syntax to add a 'total' row to the bottom of a pandas DataFrame:

```
df.loc= df.sum()
```

The following example shows how to use this syntax in practice.

## Example: Add a Total Row to Pandas DataFrame

Suppose we have the following pandas DataFrame:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'team': ,  
'assists': ,  
'rebounds': ,  
'blocks': })
```

```
#view DataFrame
```

```
print(df)
```

```
team assists rebounds blocks
```

```
0 A 5 11 6
```

```
1 B 7 8 6
```

```
2 C 7 10 3
```

```
3 D 9 6 2
```

```
4 E 12 6 7
```

```
5 F 9 5 9
```

We can use the following syntax to add a 'total' row at the bottom of the DataFrame that shows the sum of values in each column:

```
#add total row
```

```
df.loc= df.sum()
```

```
#view updated DataFrame
print(df)

team assists rebounds blocks
0 A 5 11 6
1 B 7 8 6
2 C 7 10 3
3 D 9 6 2
4 E 12 6 7
5 F 9 5 9
total ABCDEF 49 46 33
```

A new row has been added to the bottom of the DataFrame that shows the sum of values in each column.

Note that for character columns, the 'total' is simply the concatenation of every character in the column.

If you'd like, you can set the 'total' value in the **team** column to simply be blank:

```
#set last value in team column to be blank
df.loc, 'team'] = "
```

```
#view updated DataFrame
print(df)

team assists rebounds blocks
0 A 5 11 6
1 B 7 8 6
2 C 7 10 3
3 D 9 6 2
4 E 12 6 7
5 F 9 5 9
total 49 46 33
```

The last value in the **team** column is now blank, as opposed to being a concatenation of every character in the column.