import pandas as pd

tips=pd.read_csv('/content/tips.csv')

tips

	total_bill	tip	sex	smoker	day	time	size	
0	16.99	1.01	Female	No	Sun	Dinner	2	
1	10.34	1.66	Male	No	Sun	Dinner	3	
2	21.01	3.50	Male	No	Sun	Dinner	3	
3	23.68	3.31	Male	No	Sun	Dinner	2	
4	24.59	3.61	Female	No	Sun	Dinner	4	
239	29.03	5.92	Male	No	Sat	Dinner	3	
240	27.18	2.00	Female	Yes	Sat	Dinner	2	
241	22.67	2.00	Male	Yes	Sat	Dinner	2	
242	17.82	1.75	Male	No	Sat	Dinner	2	
243	18.78	3.00	Female	No	Thur	Dinner	2	

244 rows × 7 columns

tips.head()

	total_bill	tip	sex	smoker	day	time	size	1
0	16.99	1.01	Female	No	Sun	Dinner	2	
1	10.34	1.66	Male	No	Sun	Dinner	3	
2	21.01	3.50	Male	No	Sun	Dinner	3	
3	23.68	3.31	Male	No	Sun	Dinner	2	
4	24.59	3.61	Female	No	Sun	Dinner	4	

tips['tip']/tips['total_bill']*100

0 5.944673 1 16.054159 2 16.658734 3 13.978041 4 14.680765 ... 239 20.392697 240 7.358352 241 8.822232 242 9.820426 243 15.974441

Length: 244, dtype: float64

tip_percentage=tips['tip']/tips['total_bill']*100

tip_percentage

0 5.944673 1 16.054159 2 16.658734 3 13.978041 14.680765 . . . 239 20.392697 240 7.358352 241 8.822232 242 9.820426 243 15.974441

Length: 244, dtype: float64

tips['tip_percentage']=tips['tip']/tips['total_bill']*100

tips.head()

	total_bill	tip	sex	smoker	day	time	size	tip_percenatage	tip_percenta
0	16.99	1.01	Female	No	Sun	Dinner	2	5.944673	5.9446
1	10.34	1.66	Male	No	Sun	Dinner	3	16.054159	16.0541
2	21.01	3.50	Male	No	Sun	Dinner	3	16.658734	16.6587
3	23.68	3.31	Male	No	Sun	Dinner	2	13.978041	13.9780
4	24.59	3.61	Female	No	Sun	Dinner	4	14.680765	14.6807

tips['tip_percentage']= tips['tip_percentage'].round(1)

tips.head()

	total_bill	tip	sex	smoker	day	time	size	tip_percenatage	tip_percenta
0	16.99	1.01	Female	No	Sun	Dinner	2	5.944673	ţ
1	10.34	1.66	Male	No	Sun	Dinner	3	16.054159	16
2	21.01	3.50	Male	No	Sun	Dinner	3	16.658734	16
3	23.68	3.31	Male	No	Sun	Dinner	2	13.978041	14
4	24.59	3.61	Female	No	Sun	Dinner	4	14.680765	14

tips=tips.drop(['time'],axis=1)

tips.head()

	total_bill	tip	sex	smoker	day	size	tip_percenatage	tip_percentage	1
0	16.99	1.01	Female	No	Sun	2	5.944673	5.9	
1	10.34	1.66	Male	No	Sun	3	16.054159	16.1	
2	21.01	3.50	Male	No	Sun	3	16.658734	16.7	
3	23.68	3.31	Male	No	Sun	2	13.978041	14.0	
4	24.59	3.61	Female	No	Sun	4	14.680765	14.7	

tips.set_index('size')

	total_bill	tip	sex	smoker	day	tip_percenatage	tip_percentage
size							
2	16.99	1.01	Female	No	Sun	5.944673	5.9
3	10.34	1.66	Male	No	Sun	16.054159	16.1
3	21.01	3.50	Male	No	Sun	16.658734	16.7
2	23.68	3.31	Male	No	Sun	13.978041	14.0
4	24.59	3.61	Female	No	Sun	14.680765	14.7
3	29.03	5.92	Male	No	Sat	20.392697	20.4
2	27.18	2.00	Female	Yes	Sat	7.358352	7.4
2	22.67	2.00	Male	Yes	Sat	8.822232	8.8
2	17.82	1.75	Male	No	Sat	9.820426	9.8
2	18.78	3.00	Female	No	Thur	15.974441	16.0

244 rows × 7 columns

tips.head()

tips=tips.reset_index()

tips.head()

	index	total_bill	tip	sex	smoker	day	size	tip_percenatage	tip_percenta
0	0	16.99	1.01	Female	No	Sun	2	5.944673	5
1	1	10.34	1.66	Male	No	Sun	3	16.054159	16
2	2	21.01	3.50	Male	No	Sun	3	16.658734	16
3	3	23.68	3.31	Male	No	Sun	2	13.978041	14
4	4	24.59	3.61	Female	No	Sun	4	14.680765	14
4									•

✓ 0s completed at 1:30 PM

×