import pandas as pd

tips=pd.read_csv('https://github.com/YBI-Foundation/Dataset/raw/main/Tips%20Payment%20Data
tips.head()

	Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	Payer Name	CC N
0	16.99	1.01	Female	No	Sun	Dinner	2	8.49	Christy Cunningham	356032516860
1	10.34	1.66	Male	No	Sun	Dinner	3	3.45	Douglas Tucker	44780713797
4									Travie	>

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
4
       14.680765
239
       20.392697
240
        7.358352
241
        8.822232
242
        9.820426
       15.974441
243
Length: 244, dtype: float64
```

tips['tip_percentage']=tips['Tip']/tips['Total Bill']*100

tips.head()

	Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	Payer Name	CC N
0	16.99	1.01	Female	No	Sun	Dinner	2	8.49	Christy Cunningham	356032516860
1	10.34	1.66	Male	No	Sun	Dinner	3	3.45	Douglas Tucker	44780713797
4									Travie	>

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

tips.head()

		Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	Payer Name	CC N
	0	16.99	1.01	Female	No	Sun	Dinner	2	8.49	Christy Cunningham	356032516860
	1	10.34	1.66	Male	No	Sun	Dinner	3	3.45	Douglas Tucker	44780713797
4										Travis	
4											>

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

tips.head()

	Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	CC Number	Payme
0	16.99	1.01	Female	No	Sun	Dinner	2	8.49	3560325168603410	Sun29
1	10.34	1.66	Male	No	Sun	Dinner	3	3.45	4478071379779230	Sun460
2	21.01	3.50	Male	No	Sun	Dinner	3	7.00	6011812112971320	Sun44
3	23.68	3.31	Male	No	Sun	Dinner	2	11.84	4676137647685990	Sun520

tips.set_index('Payment ID')

		Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	CC Number
	Payment ID									
	Sun2959	16.99	1.01	Female	No	Sun	Dinner	2	8.49	3560325168603410
	Sun4608	10.34	1.66	Male	No	Sun	Dinner	3	3.45	4478071379779230
	Sun4458	21.01	3.50	Male	No	Sun	Dinner	3	7.00	6011812112971320
	Sun5260	23.68	3.31	Male	No	Sun	Dinner	2	11.84	4676137647685990
	Sun2251	24.59	3.61	Female	No	Sun	Dinner	4	6.15	4832732618637220
tips.	9 2 +26-7 head()	ა <u>ი</u>	E 0.2	Mala	No	Sat	Dinnor	3	0 68	ESUEUESEUEUESSAU

	Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	CC Number	Payme
0	16.99	1.01	Female	No	Sun	Dinner	2	8.49	3560325168603410	Sun29
1	10.34	1.66	Male	No	Sun	Dinner	3	3.45	4478071379779230	Sun460
2	21.01	3.50	Male	No	Sun	Dinner	3	7.00	6011812112971320	Sun44
3	23.68	3.31	Male	No	Sun	Dinner	2	11.84	4676137647685990	Sun52

tips=tips.set_index('Payment ID')

tips.head()

	Payment ID	Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	CC Number	ti
	10										
	Sun2959	16.99	1.01	Female	No	Sun	Dinner	2	8.49	3560325168603410	
	Sun4608	10.34	1.66	Male	No	Sun	Dinner	3	3.45	4478071379779230	
	Sun4458	21.01	3.50	Male	No	Sun	Dinner	3	7.00	6011812112971320	
4											•

tips=tips.reset_index()

tips.head()

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	Payment ID	Total Bill	Tip	Gender	Smoker	Day	Time	Size	Bill Per Person	CC Number
0	Sun2959	16.99	1.01	Female	No	Sun	Dinner	2	8.49	3560325168603410
1	Sun4608	10.34	1.66	Male	No	Sun	Dinner	3	3.45	4478071379779230
2	Sun4458	21.01	3.50	Male	No	Sun	Dinner	3	7.00	6011812112971320
3	Sun5260	23.68	3.31	Male	No	Sun	Dinner	2	11.84	4676137647685990

✓ 0s completed at 4:25 PM

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