

## Groupby function

What does the function: `dataframe.groupby()` return without any aggregate function?

Answer:-

**A Pandas object is created**

```
In [1]: import pandas as pd
pd.DataFrame({"name":["Tej", "Hiten", "Hitu", "Janu"], "gender":["M", "M", "F", "F"]}).groupby("gender")
```

```
Out[1]: <pandas.core.groupby.generic.DataFrameGroupBy object at 0x000002D5334CD250>
```

---

## Dataframe grouping

Description - Group the dataframe 'df' by 'month' and 'day' and find the mean value for column 'rain' and 'wind'.

```
In [2]: import pandas as pd
df = pd.read_csv('https://cdn.upgrad.com/uploads/production/b3467ba4-4e13-44e9-8087-4d7e94cc7586/forestfires.csv')

df_1 = df.groupby(['month', 'day']).mean()[['rain', 'wind']]
print(df_1.head(20))
```

		rain	wind
month	day		
apr	fri	0.000000	3.100000
	mon	0.000000	3.100000
	sat	0.000000	4.500000
	sun	0.000000	5.666667
	thu	0.000000	5.800000
	wed	0.000000	2.700000
aug	fri	0.066667	4.766667
	mon	0.000000	2.873333
	sat	0.000000	4.310345
	sun	0.025000	4.417500
	thu	0.000000	3.503846
	tue	0.300000	4.567857
	wed	0.000000	3.520000

dec	fri	0.000000	4.900000
	mon	0.000000	8.500000
	sun	0.000000	8.500000
	thu	0.000000	4.900000
	tue	0.000000	8.500000
	wed	0.000000	8.000000
feb	fri	0.000000	4.820000

In [ ]: