

Aim: To group data by the 'schoolCode' Column in a dataframe using pandas and check the type of result
Group by object

pseudo code:

- ± import pandas library
- ± create a dataframe with columns including schoolcode
- ± use the group by method the group Dataframe by the 'School code'
- ± print the type of the resulting group by object to verify
- ± Display the grouped data to check the output

sample input:

```
data = { 'school code' : [s1, s2, s3, s4] ...
```

```
----- y
```

```
df = pd.DataFrame(data)
```

Sample output:

school code : s1

School code	student name	marks
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s1	John	85
----	------	----

s2	Emma	92
----	------	----

Result:

This code has been executed successfully and we got the output



```
import pandas as pd
```

```
# Sample DataFrame
```

```
data = {  
    'School_Code': ['S1', 'S2', 'S1', 'S3', 'S2'],  
    'Student_Name': ['Alice', 'Bob', 'Charlie', 'David', 'Eve'],  
    'Age': [15, 16, 14, 17, 15]  
}
```

```
df = pd.DataFrame(data)
```

```
# Grouping by 'School_Code'
```

```
grouped = df.groupby('School_Code')
```

```
# Checking the type of the GroupBy object
```

```
print(f"Type of GroupBy object: {type(grouped)}")
```

```
# Displaying the groups
```

```
for name, group in grouped:  
    print(f"Group: {name}")  
    print(group)  
    print("\n")
```



```
Type of GroupBy object: <class 'pandas.core.groupby.generic.DataFrameGroupBy'>
```

```
Group: S1
```

	School_Code	Student_Name	Age
0	S1	Alice	15
2	S1	Charlie	14

```
Group: S2
```

	School_Code	Student_Name	Age
1	S2	Bob	16
4	S2	Eve	15

```
Group: S3
```

	School_Code	Student_Name	Age
3	S3	David	17