```
import pandas as pd
import numpy as np
df teacher = pd.DataFrame({
High", np.nan]
})
df student = pd.DataFrame({
Partey"],
    "age": [21, 21, 27, 31, 28, 23, 29, 27, 29],
})
# Merge both dataframe into single dataframe
data = pd.merge(df_teacher, df student, left on='name', right on='teacher')
# Change columns into meaningfull columns
data["student"] = data["name y"]
data["teacher"] = data["name x"]
# Drop the changed columns names
data.drop(columns=["name x", "name y"], axis=0, inplace=True)
students columns = ["student", "age", "height"]
def formatData(group):
    formatedData = {
        'teacher': group['teacher'].iloc[0],
        'married': group['married'].iloc[0],
        'school': group['school'].iloc[0],
        'students': group[students columns].to dict(orient='records')
    return formatedData
def teachersList():
    list = data.groupby('teacher').apply(lambda group:
formatData(group)).tolist()
    teachers df = pd.DataFrame(list)
    return teachers df
if name
   print(teachersList().to json(orient='records'))
```

```
import pandas as pd
import numpy as np
df teacher = pd.DataFrame({
    "married": [True, True, False, True],
High", np.nan]
df student = pd.DataFrame({
    "age": [21, 21, 27, 31, 28, 23, 29, 27, 29],
# Merge both dataframe into single dataframe
data = pd.merge(df teacher, df student, left on='name', right on='teacher')
# Change columns into meaningfull columns
data["student"] = data["name y"]
data["teacher"] = data["name x"]
# Drop the changed columns names
data.drop(columns=["name_x", "name_y"], axis=0, inplace=True)
students columns = ["student", "age", "height", 'weight']
def formatData(group):
    formatedData = {
        'teacher': group['teacher'].iloc[0],
        'married': group['married'].iloc[0],
        'school': group['school'].iloc[0],
        'students': group[students columns].to dict(orient='records')
    return formatedData
def teachersList():
    list = data.groupby('teacher').apply(lambda group:
```

```
formatData(group)).tolist()
    teachers_df = pd.DataFrame(list)
    return teachers_df

if __name__ == '__main__':
    print(teachersList().to_json(orient='records'))
```