In [5]:
```
import pandas as pd;
data = {
    'Employee': ['John', 'Alice', 'Bob', 'Emma'],
    'Department': ['IT', 'HR', 'Finance', 'IT'],
    'Salary': [60000, 55000, 70000, 72000],
    'Age': [30, 28, 35, 32]
}
df = pd.DataFrame(data)
print("The data of first two rows are : ")
print(df.head(2))
df['Experience'] = [5, 3, 7, 6]
print("The data after adding new column experience is : ")
print(df)
average_salary = df['Salary'].mean()
print("Average Salary:", average_salary)
```

```
The data of first two rows are :
  Employee Department  Salary  Age
0     John         IT   60000   30
1    Alice         HR   55000   28
The data after added new column experience is :
  Employee Department  Salary  Age  Experience
0     John         IT   60000   30           5
1    Alice         HR   55000   28           3
2      Bob    Finance   70000   35           7
3     Emma         IT   72000   32           6
Average Salary: 64250.0
```

In [1]:
```
import pandas as pd
data = {
    'Name': ['Preethi', 'Sailaja', 'Suresh', 'Pranay', 'Raji'],
    'Math': [85, 70, 95, 60, 90],
    'Science': [78, 88, 72, 95, 80],
    'English': [92, 85, 88, 75, 89]
}
students_df = pd.DataFrame(data)
print("Dataset of Students:\n", students_df)

math_above_80 = students_df[students_df['Math'] > 80]
print("\nStudents who scored more than 80 in Math:\n", math_above_80)

sorted_by_science = students_df.sort_values(by='Science', ascending=False)
print("\nDataFrame sorted by Science scores (descending order):\n", sorted_by_scien

highest_english_score = students_df.loc[students_df['English'].idxmax(), ['Name', '
print("\nStudent with the highest English score:\n", highest_english_score)
```

```
Dataset of Students:
       Name  Math  Science  English
0  Preethi    85       78       92
1  Sailaja    70       88       85
2   Suresh    95       72       88
3   Pranay    60       95       75
4     Raji    90       80       89

Students who scored more than 80 in Math:
       Name  Math  Science  English
0  Preethi    85       78       92
2   Suresh    95       72       88
4     Raji    90       80       89

DataFrame sorted by Science scores (descending order):
       Name  Math  Science  English
3   Pranay    60       95       75
1  Sailaja    70       88       85
4     Raji    90       80       89
0  Preethi    85       78       92
2   Suresh    95       72       88

Student with the highest English score:
 Name       Preethi
English         92
Name: 0, dtype: object
```

In [ ]: