In [4]:
```
import pandas as pd

# Creating the DataFrame
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)

# 1. Display the first two rows of the DataFrame
print("First two rows of the DataFrame:")
print(df.head(2))

# 2. Add a new column "Experience"
df['Experience'] = [5, 3, 7, 6]
print("\nDataFrame after adding 'Experience' column:")
print(df)


# 3. Find the average salary of all employees
average_salary = df['Salary'].mean()
print(f"\nAverage Salary: {average_salary}")
```

```
First two rows of the DataFrame:
  Employee Department  Salary  Age
0     John         IT   60000   30
1    Alice         HR   55000   28

DataFrame after adding 'Experience' column:
  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 [11]:
```
import pandas as pd

# Creating the DataFrame
Data = {
    'Name': ['Alice', 'Bob', 'Charlie', 'David', 'Emma'],
    'Math': [85, 78, 92, 88, 76],
    'Science': [80, 89, 94, 91, 72],
    'English': [75, 82, 88, 90, 85]
}
df = pd.DataFrame(Data)

# Display students who scored more than 80 in Math
print("Students who scored more than 80 in Math:\n", df[df['Math']>80], "\n")

# Sort by Science scores in descending order
```

```
print("DataFrame sorted by Science scores (descending):\n", df.sort_values('Science

# Find the student with the highest English score
print("Student with the highest English score:\n", df.loc[df['English'].idxmax()])
```

```
Students who scored more than 80 in Math:
      Name  Math  Science  English
0    Alice    85       80       75
2  Charlie    92       94       88
3    David    88       91       90

DataFrame sorted by Science scores (descending):
      Name  Math  Science  English
2  Charlie    92       94       88
3    David    88       91       90
1      Bob    78       89       82
0    Alice    85       80       75
4     Emma    76       72       85

Student with the highest English score:
 Name       David
Math           88
Science        91
English        90
Name: 3, dtype: object
```

In [ ]: