import pandas as pd

# Step 1: Create a DataFrame from the given data

data = {

'Name': ['John', 'Alice', 'Bob', 'Diana'],

'Age': [28, 34, 23, 29],

'Department': ['HR', 'IT', 'Marketing', 'Finance'],

'Salary': [45000, 60000, 35000, 50000]

}

df = pd.DataFrame(data)

# Display the first 2 rows of the DataFrame

print("First 2 rows of the DataFrame:")

print(df.head(2))

# Step 2: Add a new column named 'Bonus' where the bonus is 10% of the salary

df['Bonus'] = df['Salary'] \* 0.10

# Display the DataFrame after adding the Bonus column

print("\nDataFrame after adding Bonus column:")

print(df)

# Step 3: Calculate the average salary of employees in the DataFrame

average\_salary = df['Salary'].mean()

print("\nAverage Salary of employees:", average\_salary)

# Step 4: Filter and display employees who are older than 25

older\_than\_25 = df[df['Age'] > 25]

print("\nEmployees older than 25:")

print(older\_than\_25)