```
import numpy as np

# Creating a NumPy array
arr = np.array([1, 2, 3, 4, 5])

# Performing operations on the array
arr_squared = np.square(arr)
arr_sum = np.sum(arr)

# Printing the results
print("Original Array:", arr)
print("Squared Array:", arr_squared)
print("Sum of Array Elements:", arr_sum)
```

```
Original Array: [1 2 3 4 5]
Squared Array: [ 1  4  9 16 25]
Sum of Array Elements: 15
```

```
import pandas as pd

# Creating a DataFrame
data = {'Name': ['Alice', 'Bob', 'Charlie', 'David'],
        'Age': [25, 30, 22, 35],
        'City': ['New York', 'San Francisco', 'Los Angeles', 'Chicago']}

df = pd.DataFrame(data)

# Displaying the DataFrame
print("Original DataFrame:")
print(df)

# Accessing specific columns
ages = df['Age']

# Adding a new column
df['Birth_Year'] = 2024 - df['Age']

# Filtering rows
young_people = df[df['Age'] < 30]

# Displaying the modified DataFrame
print("\nDataFrame with New Column and Filtered Rows:")
print(df)
print("\nFiltered DataFrame for Young People:")
print(young_people)
```

```
Original DataFrame:
      Name  Age           City
0    Alice   25       New York
1      Bob   30  San Francisco
2  Charlie   22    Los Angeles
3    David   35        Chicago

DataFrame with New Column and Filtered Rows:
      Name  Age           City  Birth_Year
0    Alice   25       New York        1999
1      Bob   30  San Francisco        1994
2  Charlie   22    Los Angeles        2002
3    David   35        Chicago        1989

Filtered DataFrame for Young People:
      Name  Age         City  Birth_Year
0    Alice   25     New York        1999
2  Charlie   22  Los Angeles        2002
```