```
C: > Users > suman > Documents > 📌 Data Science 2.py > ...
       import pandas as pd
  2
      # Create a DataFrame from a dictionary
       data = {
  4
  5
           'Name': ['Alice', 'Bob', 'Charlie', 'David', 'Eve'],
  6
           'Age': [25, 30, 35, 40, 28],
           'City': ['New York', 'Los Angeles', 'New York', 'Chicago', 'Los Angeles']
  8
       df = pd.DataFrame(data)
 10
       print("Original DataFrame:")
 11
       print(df)
 12
       # Filtering
 13
      filtered_df = df[df['Age'] > 30]
 14
       print("\nFiltered (Age > 30):")
 15
       print(filtered_df)
 16
 17
       # Sorting
 18
       sorted_df = df.sort_values(by='Age')
 19
       print("\nSorted by Age:")
 20
       print(sorted_df)
 21
       # Grouping
 22
       grouped_df = df.groupby('City').count()
 23
 24
       print("\nGrouped by City:")
       print(grouped_df)
 25
```

Data Science 2.py

```
PS C:\Users\suman\OneDrive\Desktop\sumanth_project> & C:/Users/suman/AppData/Local/Programs/Python/Python38/python.exe "c:/Users/suman/Documents/Data Science 2.py"
Original DataFrame:
                     City
     Name Age
                  New York
    Alice 25
           30 Los Angeles
      Bob
2 Charlie
                  New York
           35
    David
           40
                  Chicago
           28 Los Angeles
      Eve
Filtered (Age > 30):
     Name Age
                   City
2 Charlie 35 New York
    David 40 Chicago
3
Sorted by Age:
                     city
     Name Age
    Alice 25
                  New York
      Eve 28 Los Angeles
4
           30 Los Angeles
      Bob
2 Charlie
           35
                  New York
    David 40
                   Chicago
Grouped by City:
           Name Age
City
Chicago
              1 1
Los Angeles
              2
                  2
New York
```

PS C:\Users\suman\OneDrive\Desktop\sumanth_project>