

```
In [2]: import pandas as pd
df = pd.DataFrame({
    'Name': ['Jana', 'Smith', 'Root'],
    'Age': [28, 24, 22],
    'City': ['Sydney', 'Hobart', 'Perth']
})
df.to_excel('data.xlsx', index=False)
```

```
In [3]: df_read = pd.read_excel('data.xlsx')
print(df_read)
```

	Name	Age	City
0	Jana	28	Sydney
1	Smith	24	Hobart
2	Root	22	Perth

```
In [4]: print("Column Headings:", df_read.columns)
print("Shape of DataFrame:", df_read.shape)
```

Column Headings: Index(['Name', 'Age', 'City'], dtype='object')  
Shape of DataFrame: (3, 3)

```
In [5]: print("Age Column:")
print(df_read['Age'])
```

Age Column:  
0 28  
1 24  
2 22  
Name: Age, dtype: int64

```
In [6]: print("First Row:")
print(df_read.iloc[0])
```

First Row:  
Name Jana  
Age 28  
City Sydney  
Name: 0, dtype: object

```
In [7]: print("Sliced Rows (0 to 1):")
print(df_read[0:2])
print("Sliced Columns (Name and Age):")
print(df_read[['Name', 'Age']])
```

```
Sliced Rows (0 to 1):
   Name  Age  City
0  Jana   28  Sydney
1  Smith  24  Hobart
Sliced Columns (Name and Age):
   Name  Age
0  Jana   28
1  Smith  24
2  Root   22
```

```
In [14]: df2 = pd.DataFrame({
    'Name': ['Ashwin', 'Kane'],
    'Age': [30, 25],
    'City': ['Chennai', 'Coimbatore']
})
df2.to_excel('data2.xlsx', index=False)

df1_read = pd.read_excel('data.xlsx')
df2_read = pd.read_excel('data2.xlsx')
```

```
In [15]: import pandas as pd
df1 = pd.DataFrame({
    'Name': ['Jana', 'Smith', 'Root'],
    'Age': [28, 24, 22],
    'City': ['Madurai', 'Theni', 'Vellore']
})
df1.to_excel('data.xlsx', index=False)
df2 = pd.DataFrame({
    'Name': ['Ashwin', 'Kane'],
    'Age': [30, 25],
    'City': ['Delhi', 'Mumbai']
})
df2.to_excel('data2.xlsx', index=False)
df1_read = pd.read_excel('data.xlsx')
df2_read = pd.read_excel('data2.xlsx')
merged_df = pd.concat([df1_read, df2_read], ignore_index=True)

sorted_df = merged_df.sort_values(by='Age')
sorted_df.to_excel('sorted_data.xlsx', index=False)
print(sorted_df)
```

	Name	Age	City
2	Root	22	Vellore
1	Smith	24	Theni
4	Kane	25	Mumbai
0	Jana	28	Madurai
3	Ashwin	30	Delhi

In [ ]: