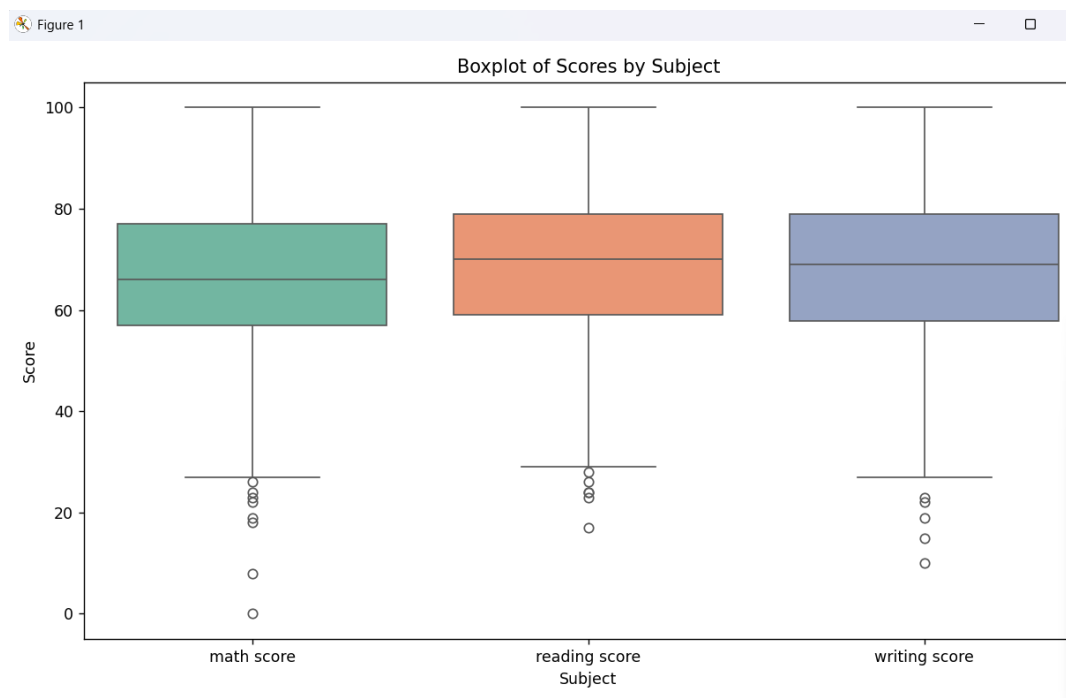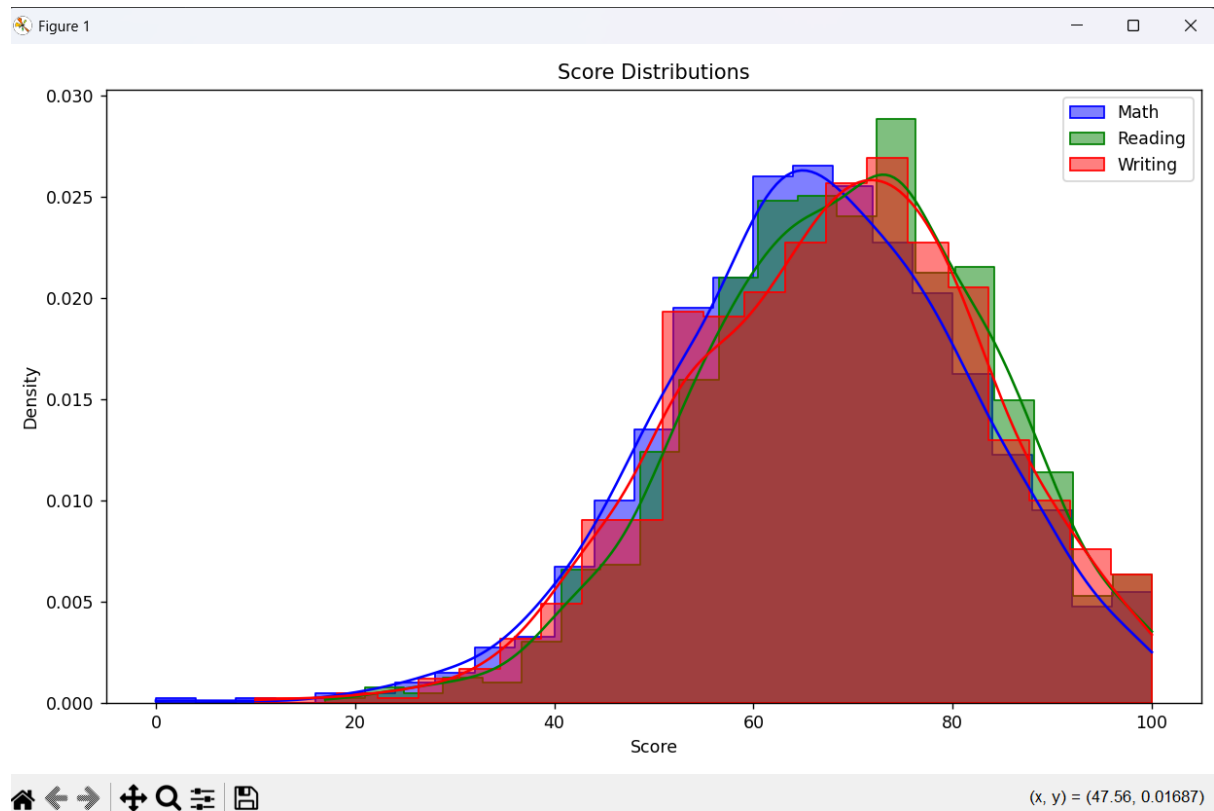# RESULT:

```
PS C:\Users\ASUS\OneDrive\Desktop\Internship\Elevate Labs\Task2\EDA> & "c:/Users/ASUS/OneDrive/Desktop/Internship/Elevate Labs/Task2/EDA/venv/Scripts/python.exe" "c:
/Users/ASUS/OneDrive/Desktop/Internship/Elevate Labs/Task2/EDA/venv/eda.py"
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 8 columns):
 #   Column                       Non-Null Count  Dtype
---  ------                       --------------  -----
 0   gender                       1000 non-null   object
 1   race/ethnicity               1000 non-null   object
 2   parental level of education  1000 non-null   object
 3   lunch                        1000 non-null   object
 4   test preparation course      1000 non-null   object
 5   math score                   1000 non-null   int64
 6   reading score                1000 non-null   int64
 7   writing score                1000 non-null   int64
dtypes: int64(3), object(5)
memory usage: 62.6+ KB
None
       math score  reading score  writing score
count  1000.00000    1000.000000    1000.000000
mean     66.08900      69.169000      68.054000
std      15.16308      14.600192      15.195657
min       0.00000      17.000000      10.000000
25%      57.00000      59.000000      57.750000
50%      66.00000      70.000000      69.000000
75%      77.00000      79.000000      79.000000
max     100.00000     100.000000     100.000000
c:\Users\ASUS\OneDrive\Desktop\Internship\Elevate Labs\Task2\EDA\venv\eda.py:30: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

  sns.boxplot(x='Subject', y='Score', data=df_melted, palette='Set2')
PS C:\Users\ASUS\OneDrive\Desktop\Internship\Elevate Labs\Task2\EDA>
```
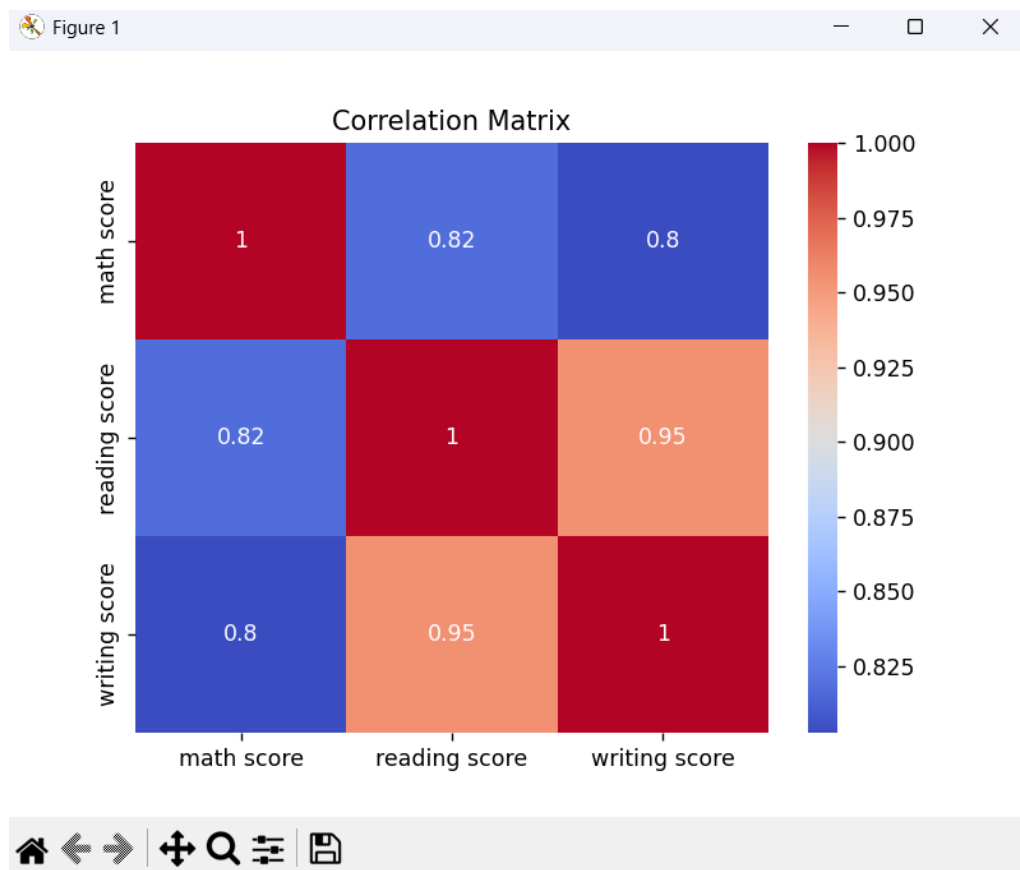
BOXPLOT:

HISTOGRAM:

CORRELATION HEATMAP:

INTERACTIVE SCATTER PLOT: