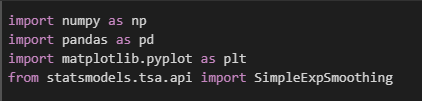
**5. Implement programs for estimating & eliminating trend in time series data- aggregation, smoothing**

**AIM:**

Implement programs for estimating & eliminating trend in time series data- aggregation, smoothing.

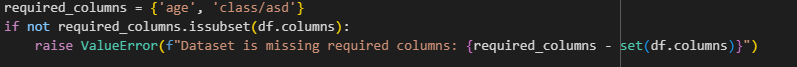
**PROCEDURE:**

**1.**Import the necessary libraries: 

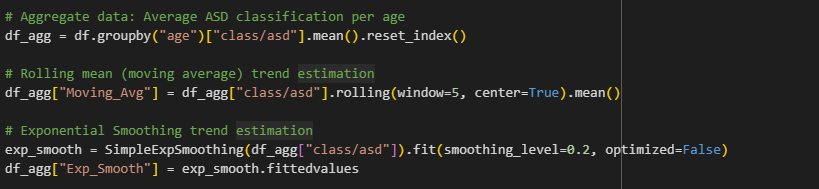
**2.** Load the dataset :

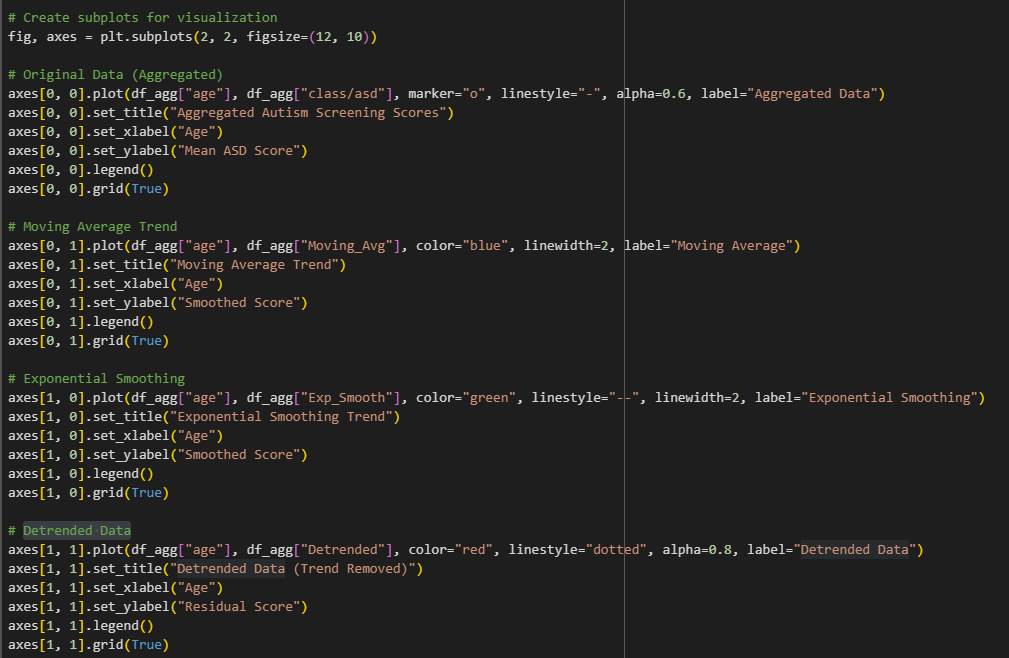
****

**3.**Ensure relevant columns exist.

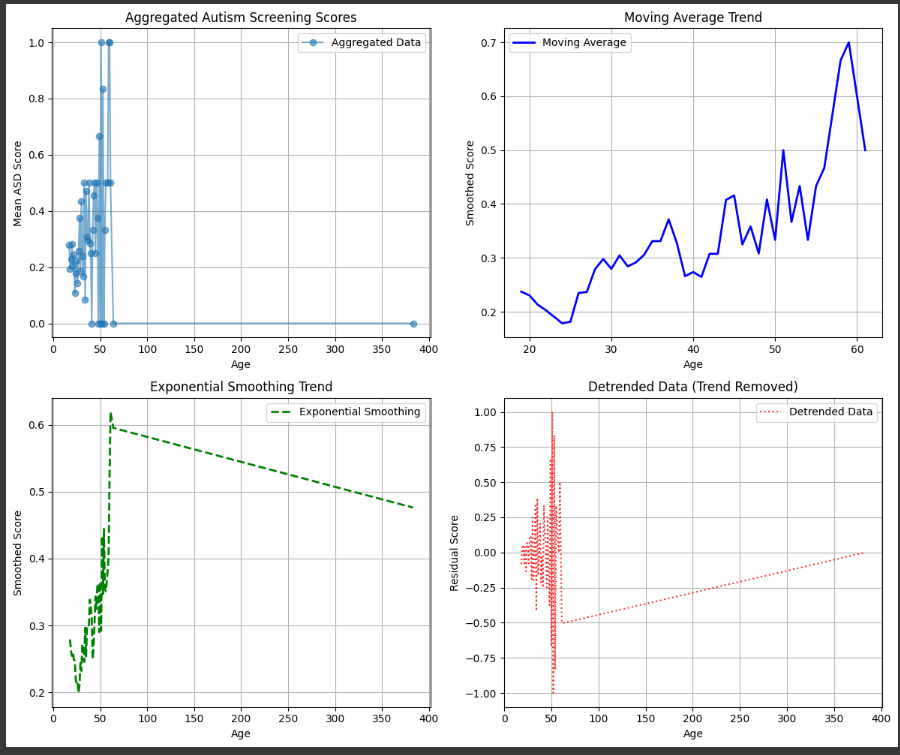
****

**4.** Aggregate ASD classification per age → Compute rolling mean (moving average) → Apply exponential smoothing for trend estimation.

****

**5.** Create subplots for visualization:Original Data (Aggregated);Moving Average Trend;ExponentialSmoothing;Detrended Data****

**OUTPUT**

****

**RESULT:**

The program to check stationary on the autism screening dataset has been implemented successfully.