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**Statistical Methods for Economists – Week 6**

(Questions and Tasks)

The topic: ***Time series analysis***

1) What is a time series?

2) What are the four main components of a time series?

3) Which components form a periodic component?

4) Write an additive model of a time series.

5) Write a multiplicative model of a time series.

6) Choose a real world time series (such as price of Apple or Tesla shares with at least 10 data points) and evaluate the trend of this time series using a linear function. Then, make a prediction about the shares (for 3-5 time points in the future).