

**IST 3500**  
**Problem Solving and Decision Making**  
**Case Assignment 2**

Fall 2023 Semester  
Due Date: October 1<sup>st</sup>, 2023

Name: \_\_\_\_\_  
Student ID #: \_\_\_\_\_

Work on the following problems using Excel. Use the attached Excel file “**ClosingStockPrices**” containing the dataset required. Show all steps in Excel where required. Also make sure your solution file is uploaded into Teams in Excel format. Please note that this case assignment 2 accounts for 20% of your total course grade.

Good luck!

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The Excel file Closing Stock Prices provides data for four stocks and the Dow Jones Industrial Average over a one-month period.

- a) Develop a spreadsheet model for forecasting each of the stock prices using simple exponential smoothing with a smoothing constance of 0.3.
- b) Compare your results to the output from Excel’s Data Analysis tool.
- c) Compute MAD, MSE and MAPE.
- d) Does a smoothing constance of 0.1 or 0.5 yield better results?