**BAN 630**        **Optimization for Analytics**        **Fall 2025**

**Homework Assignment 4**

1. Shawls or Stoles case
   a. Create an optimal production plan for LL assuming they have only 15 days to get the products ready. Assume spinning, plying, and dyeing are already complete. (only 1 point for answering this question. Remaining points will be for sensitivity analysis and recommendations).
   b. Explore how sensitive your final solution is (both the objective and decision variables) with respect to some of the parameters in the problem. Identify key resources based on this analysis.
   c. Summarize your analysis in the form of key recommendations to LL.

Please submit one pdf file and notebook file per team through Canvas. Your pdf file should contain the solution and observations (if any). Please do not e-mail me your submission. E-mail submissions will not be accepted.