

Engineering Models I

Homework Assignment #5

Instructions:

1. **Show your work!**
2. It is fine to work with other students, but what you turn in must be your own work - not something copied from someone else.

Problem 1: Do the following in a script file. You can then copy the commands from your script file and the resulting output into this document.

- (a) Write a set of input statements that prompt the user for the year, month (*a string*), and the day that he/she was born.
- (b) Write a single fprintf statement that will display the user's birthday using the variables generated from your input statements.

Problem 2: Do the following in a script file. You can then copy the commands from your script file and the resulting output into this document.

- (a) Write a set of input statements that prompt the user for his/her favorite band, favorite song, favorite restaurant, and favorite food.
- (b) Write two fprintf statements. The first statement should display the user's favorite band and favorite song. The second statement should display the user's favorite restaurant and favorite food on a new line.

Problem 3: Include your MATLAB statement and a screen shot of your pop-up menu.

- (a) Write a menu statement that instructs the user to choose one of the following interpolation schemes: Nearest, Linear, or Spline and saves the user's choice under the variable, Method.
- (b) In part (a), what is the variable, Method, if the user chooses Linear?