\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MATLAB: Homework 11 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

You are a volunteer in charge of the snack bar for the local high school sports events. Write a script file that calculates the cost of boxes of licorice for the snack bar according to the following price schedule:

Number of Boxes being purchased

|  |  |  |  |
| --- | --- | --- | --- |
| Flavor | < =5 boxes | 6 to 10 boxes | >=11 boxes |
| Red | $6 per box | $30 + $5 for the number of boxes above 5 | $55 + $4 for the number of boxes above 10 |
| Green | $7 per box | $35 + $6 for the number of boxes above 5 | $65 + $5 for each box above 10 |
| Black | $8 per box | $40 + $7 for the number of boxes above 5 | $75 + $6 for every box above 10 |

1) The program MUST use switch case and input commands for full credit.

2) The program must ask the user to input the color of the licorice and the number of boxes to purchase. Your program should have an error displayed if there was not a flavor entered other than Red, Green or Black.

3) The program must make the input response lower case.

4) Show the cost of the licorice order, the number purchased and for what flavor using an fprintf statement. Assume only one flavor will be ordered.

5) Test your program to see if it runs. Be prepared to demonstrate to the instructor how the program operates if requested by the instructor.

6) Submit a copy of the script file cut and pasted into Microsoft Word. Submit the assignment over Blackboard. (Remember that the Publish option under MATLAB is not compatible with input commands. ) No output will be required for this assignment.

7) If you wish, you may use the command menu for selecting the flavor.