**Assignment 5 (due date: 11/19/2021)**

In this assignment you will ask to do coding in C using string, pointers, function, file I/O, and arrays (compile and run).

Please submit your assignment into Canvas. Please submit the codes as .c files or copy them all into a single word (.doc or .docx) file but make sure that they are ready to be compiled. It is strongly recommended to write these codes in terms of functions! Please DO NOT submit pdf.

1: You’re the owner of a hardware store and need to keep an inventory that can tell you what tools you have, how many you have and the cost of each one. Write a program that initializes the file "hardware.dat" (hardware.txt) to 10 records that are listed below, lets you input the data concerning each tool, enables you to list all your tools, lets you delete a record for a tool that you no longer have and lets you update any information in the file. The tool identification number should be the record number.

Record # Tool Name Quantity Cost

1 hammer 30 9.99

2 Lawn mower 8 50.99

3 Wrench 23 7.99

4 Sledgehammer 45 24.99

5 Power saw 60 79.99

6 Screwdriver 80 5.99

7 Bolts 50 3.99

8 Pipe 35 12.99

9 Work gloves 20 15.99

10 Ladder 15 38.99

2: Write a program that inputs several lines of text and uses “strtok” to count the total number of words. Assume that the words are separated by either spaces or newline characters.