**CS 2050 Homework Assignment 4**

**DUE FRIDAY MAY 1 at 6:00PM**

**Directions:**

Complete the following homework assignment using the description given in each section.

**Submission information:**

Submit this assignment through babbage by the deadline – NO LATER! It must be submitted before the due date. Not doing so WILL result in a zero, no exceptions. If you are even one minute late in your submission, Blackboard will close down and your TA will not make an exception for you.

For this homework assignment you must create a compressed tarball containing all the files for homework3. Here is an example of how I create the compressed tarball for submission (Please note that I am in the main directory and not in the folder I am using to compress):

The submission code is:

cs\_submit CS2050\_<LAB SECTION> HW4 HW4.zip

**Description:**

This homework is going to be very different than every other assignment you have had so far; you are not going to be given any struct definitions or function prototypes. It is up to you to decide what functions you need, and how to properly organize your code.

You will write a program that performs sentiment analysis on reviews of the lion king, that is decides if the reviews are positive or negative (hint, their mostly positive). You will be given a list of positive words, a list of negative words, and several movie reviews. You must read each file of positive and negative words into separate linked list, one word per node. Then for each file, you will search word by word and determine if it contains more positive or negative words.

If you are an honors student you must use BST’s instead of linked lists.

**If your program does not compile, does not link, or fails to produce any output, your homework will receive a grade of ZERO. If your program segfaults or infinitely loops you will receive a severely reduced grade. ALWAYS COMPILE IMMEDIATELY BEFORE SUBMITTING YOUR CODE. To be safe, you should download your submission from Blackboard and verify its contents. If your submission fails for any reason and you do not notify your TA in advance, before the due date, you will receive a grade of ZERO.**

**If your program uses global variables including global arrays/pointers, you will receive a grade of ZERO.**

To receive partial credit, your program must correctly provide output that includes some results from your program.

**25 points** – Does the program work

**10 points** – close all files, free all memory, appropriate error handling

**10 points** – Proper style: Do you use comments, do your function names make sense, is your code broken into appropriate files.

**5 points** – Make file