

Lab Exercise One - CIS*2430 (Fall 2021)

DUE DATES

Monday labs	- Sept 27 th by 11:59 pm
Tuesday labs	- Sept 28 th by 11:59 pm
Wednesday labs	- Sept 29 th by 11:59 pm
Thursday labs	- Sept 30 th by 11:59 pm
Friday labs	- Oct 1 st by 11:59 pm

- Create a program that allows the user to store up to 10 sentences in an array. If the user tries to enter a sentence when the array is full, the program should display a warning message and reject the given sentence.
- The program should use a loop that continues to ask the user to select an option and perform the related function until the user chooses to end the program.
- For the search-related options, the user should provide a search word and the program should print **all** sentences that **contain** the search word.
- The menu should resemble the following and the user can enter a number for the corresponding option:

- (1) Enter a full sentence.
- (2) Print out all sentences entered so far in the given order.
- (3) Print out all *sentences* entered thus far in the reverse order.
- (4) Print out the number of *sentences* that have been entered so far.
- (5) Print out the number of characters in all *sentences* combined.
- (6) Calculate the total number of vowels contained in all stored sentences.
- (7) Perform search for a given word using case *sensitive comparisons*.
- (8) Perform search for a given word using case *insensitive comparisons*.
- (9) End program.

* A word is defined as a discrete set of characters, separated from other words by blank space or punctuation

* Spaces do count as characters

* Searches will only be performed for one word at a time

MARKING RUBRIC

10 Marks in total.

1 mark for a working command loop (no functionality for options)

1 mark each for options (1) to (4)

1 mark each for options (5), (7), and (8)

2 marks for option (6)