

**Faculty of Engineering and Applied Science**

**SOFE 3200U Systems Programming**

**Lab Report 1**

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# Questions

## ARGS.c

1. Explain what argc and \*argv[] represent.

These two variables are passed in as parameters in the main function. argc stores the number of commands entered in the terminal. \*argv[] stores the characters

1. For the code snippet below, explain the overview of what the loop does and what variables i and j are keeping track of.



The i variable is used in the for loop to count the number of iterations it has to go through. The Variable J just keeps track of how many iteration's it goes through the while loop. They both start at 0.

1. For the code snippet below, explain the overview of what the loop does and how it is different from the previous loop.



This loop starts at index 0, until the index is less than argc which is a value that is passed as a parameter in the main function

Printf will print out all the strings that are stored in argv[i] location until null is reached in the string (different from when we used the for loop)

Prints from argv using index i

## CAPFIX.c￼￼￼￼

1. Explain what each variable listed in the table below represents.

|  |  |
| --- | --- |
| **Variable** | **Description** |
| \*fpt | ￼￼file pointer |
| first[20][30] | Size of the multidimensional array of the first name which stores the strings and characters |
| last[20][30] | Size of the multidimensional array of last name which stores the strings and characters |
| i | Integer used in for loops to count loop iterations |
| j | Integer used in second for loops to count number of loop iterations |
| total | Total int counts the number of columns in the character arrays |

1. For the code snippet below, explain the overview of what it does.



This code counts the number of total characters are in both first and the last name.

1. For the code snippet below, explain what it does in detail.



Checks if a character at index I is between a and z, if so then it will capitalize it.

1. For the code snippet below, explain what it does in detail.

 checks for all the characters stored in first[] and checks if any of them are capital letters, if that is the case than it will change them into a lowercase letter.