

CT103: Week 8 Lab Session (7/11/2023)

*Note: This assignment will count towards your final grade. Make sure you submit your solution by following the “**Submission Instructions**” at the end of this document. You have **until midnight tonight to submit your solution on Canvas**.*

Late assignment submissions will receive a penalty.

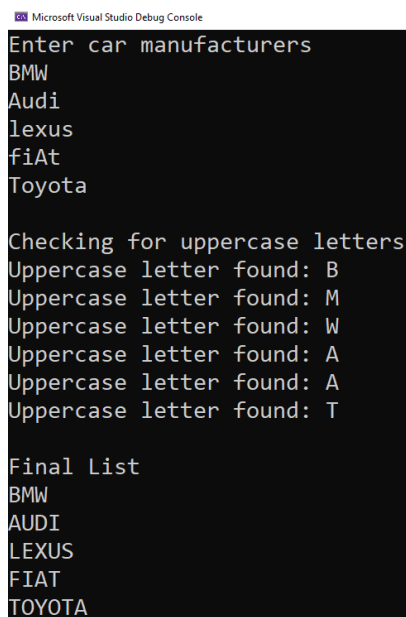
Please make sure you **write comments** explaining what your code does. Start your C program with a **comment stating your; Name, Student ID and Date**.

Write a C program that does the following:

1. Create an array of strings to store the names of 5 car manufacturers. (20 marks)
2. Use a loop to read in the car manufacturer names typed by the user. Store these in the previously created array of strings. (30 marks)
3. Next, search through each of the letters in each of the manufacturer names and check if the letter is uppercase. Print all uppercase letters to the screen. (30 marks)
4. Finally, convert all letters in the array of strings to uppercase. Display the final list of car manufacturers to the screen. (20 marks)

Your program should output something similar to the following screenshot.

This week, you must **upload a single screenshot** with your solution showing your program working for each of the requirements in tasks 1 – 4 above. It should look similar to this screenshot.



```
Microsoft Visual Studio Debug Console
Enter car manufacturers
BMW
Audi
lexus
fiAt
Toyota

Checking for uppercase letters
Uppercase letter found: B
Uppercase letter found: M
Uppercase letter found: W
Uppercase letter found: A
Uppercase letter found: A
Uppercase letter found: T

Final List
BMW
AUDI
LEXUS
FIAT
TOYOTA
```

Plagiarism Notice:

A definition of plagiarism is passing off the work of another person as one's own.

You are allowed to ask the lab tutors for help, collaborate with your classmates and review online and print resources for high-level problem solving and background research. You are each expected to complete this assignment individually. This means that every line of code and comment in your submission should be written by you alone. Please see the University of Galway Code of Practice for Dealing with Plagiarism for further information on plagiarism:

<https://www.universityofgalway.ie/media/registrar/policiesmay2023/QA220-Academic-Integrity-Policy-v2.0-Sept-2023.pdf>

Plagiarism is a serious academic offence and may lead to a loss of some or all marks and/or disciplinary proceedings if it is detected in any of your submissions. Students who facilitate others to copy their work are also subject to plagiarism sanctions (including loss of marks), so you should not share your assignment solutions with classmates.

Submission Instructions:

Please do the following to submit your solutions to the assignment.

- Copy and paste your code into a word document labelled 'AssignmentX_YOURNAME_ID.doc', e.g. 'Assignment7_JoeBloggs_123456789.doc'.
- Make sure to **include screenshots of your code working** in the .doc file. Use: 'Windows' + 'Shift' + 'S' on your keyboard. On a Mac, you should use the keys: 'shift' + 'command' + '3' or 'shift' + 'command' + '4'.
- Add both: **your .c program and your .doc files** to a folder called 'AssignmentX_YOURNAME_ID_Submission'.
- Zip the folder up and **submit the .zip file on Canvas** under CT103 Assessments. To zip the folder, right click and press 'Send To' then 'Compressed (zipped) folder'. On Mac, right click the folder and press 'Compress'.
- If for some reason you still cannot access Canvas. Send your .zip folder to the lab instructors by email. They will be available for the duration of the lab.