CT103: Week 5 Lab Session (26/10/2021)

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. An exception will be made this week so that you have **until midnight 26/10/2021 to submit your solution on Blackboard**.*
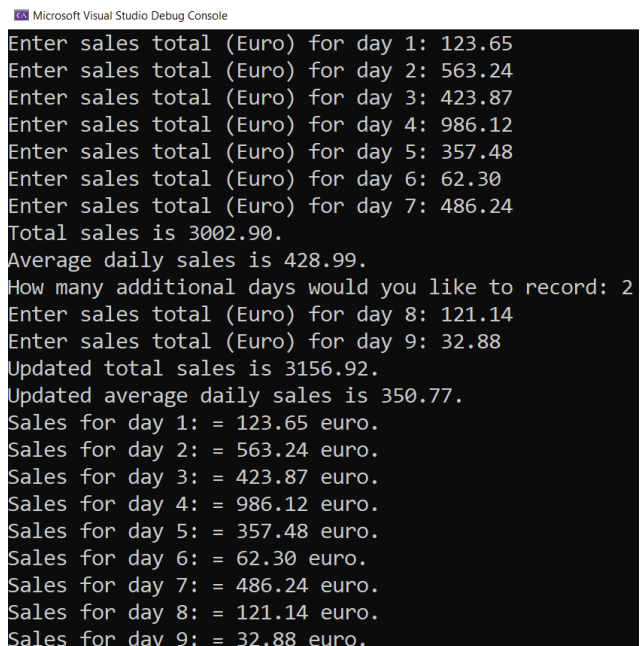***Late assignment submissions will receive a penalty.***

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. Use a **For** loop to read in the Euro amount of daily sales for a clothes shop over 7 days from the user. Store the daily sales in an array. **(20 marks)**

2. Calculate the total and average sales. Print both to the screen. **(20 marks)**

3. Now ask the user how many additional days of sales they would like to record. Use a **While** loop to read in the Euro amount of daily sales for the additional days. Store these in **the same array** that you created for task 1. Be careful not remove/replace any of the values from the first 7 days. **(20 marks)**

4. Update your calculation of the average and total sales based on the new additional days of sales. Print both to the screen. **(20 marks)**

5. Use a **For** loop to print out all sales values stored in your array. **(20 marks)**

Your program should output something similar to the following screenshot. You must **enter different values** than those in the screenshot on the right. The additional days should be > 0 to show your code fully working.

This week, you must **upload a single screenshot** with your solution showing your program working for each of the requirements in tasks 1 – 5 above. It should look similar to this screenshot.

```
Microsoft Visual Studio Debug Console
Enter sales total (Euro) for day 1: 123.65
Enter sales total (Euro) for day 2: 563.24
Enter sales total (Euro) for day 3: 423.87
Enter sales total (Euro) for day 4: 986.12
Enter sales total (Euro) for day 5: 357.48
Enter sales total (Euro) for day 6: 62.30
Enter sales total (Euro) for day 7: 486.24
Total sales is 3002.90.
Average daily sales is 428.99.
How many additional days would you like to record: 2
Enter sales total (Euro) for day 8: 121.14
Enter sales total (Euro) for day 9: 32.88
Updated total sales is 3156.92.
Updated average daily sales is 350.77.
Sales for day 1: = 123.65 euro.
Sales for day 2: = 563.24 euro.
Sales for day 3: = 423.87 euro.
Sales for day 4: = 986.12 euro.
Sales for day 5: = 357.48 euro.
Sales for day 6: = 62.30 euro.
Sales for day 7: = 486.24 euro.
Sales for day 8: = 121.14 euro.
Sales for day 9: = 32.88 euro.
```

Plagiarism Notice:

A definition of plagiarism is passing off the work of another personas 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 NUI Galway Code of Practice for Dealing with Plagiarism for further information on plagiarism: https://www.nuigalway.ie/plagiarism/

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.
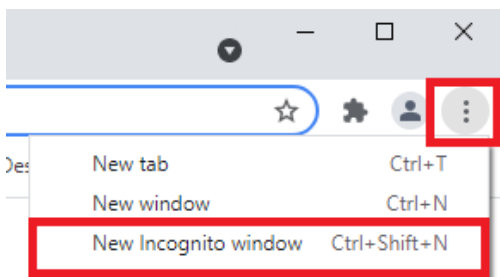
Submission Instructions:

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. 'Assignment5_JoeBloggs_123456789.doc'.

- Make sure to **include screenshots showing 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 blackboard** 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'.

- You can access blackboard using the instructions at the bottom of the page.

- If for some reason you still cannot access blackboard. Send your .zip folder to the lab instructors by email.
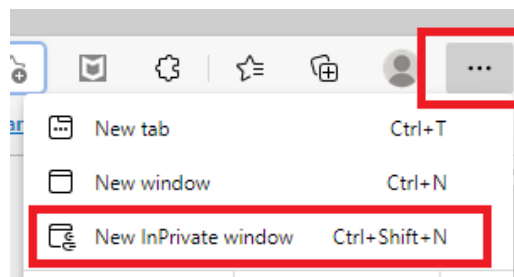
Instructions on how to access to Blackboard.

This is a temporary method of access to Blackboard to work-around access issues arising from the ongoing Security Incident

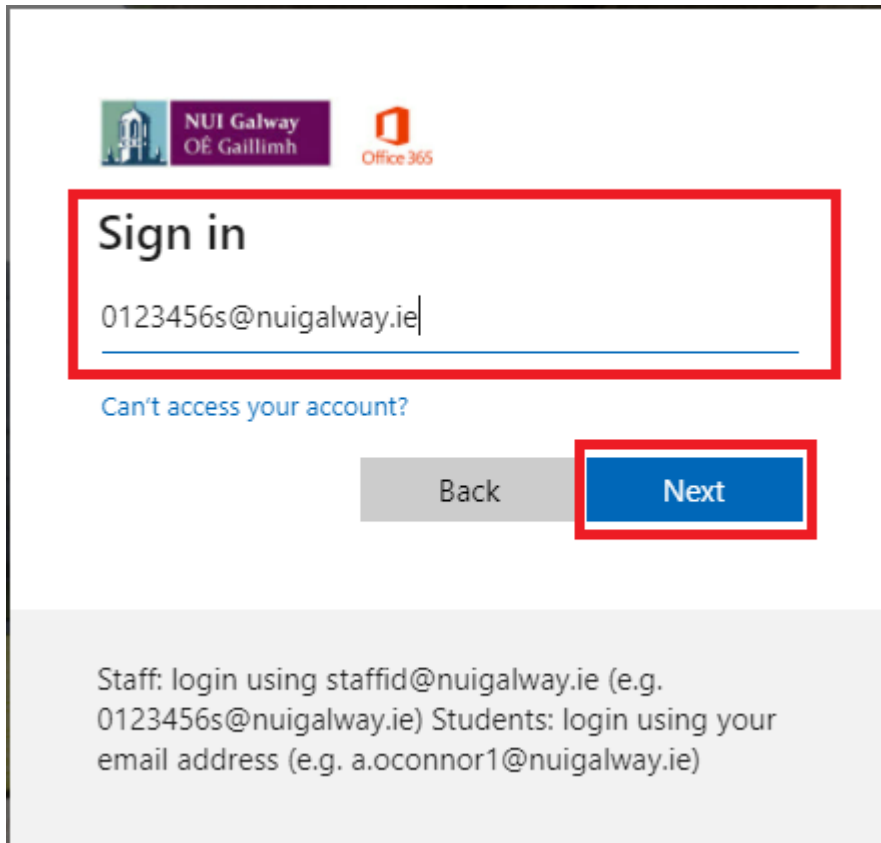1. Open a browser window in Incognito/InPrivate mode

Chrome Incognito   **Microsoft Edge InPrivate**

2. Go to https://nuigalway.blackboard.com/

3. Click the "Sign in with a third-party account" drop down and select the appropriate Blackboard SSO option. Staff select "Blackboard SSO Staff". Students select "Blackboard SSO Student"

4. You will be directed to the University Office365 login page. Enter your O365 login details and click "Next". Staff: login using staffid@nuigalway.ie (e.g. 0123456s@nuigalway.ie) Students: login using your email address (e.g. a.oconnor1@nuigalway.ie)
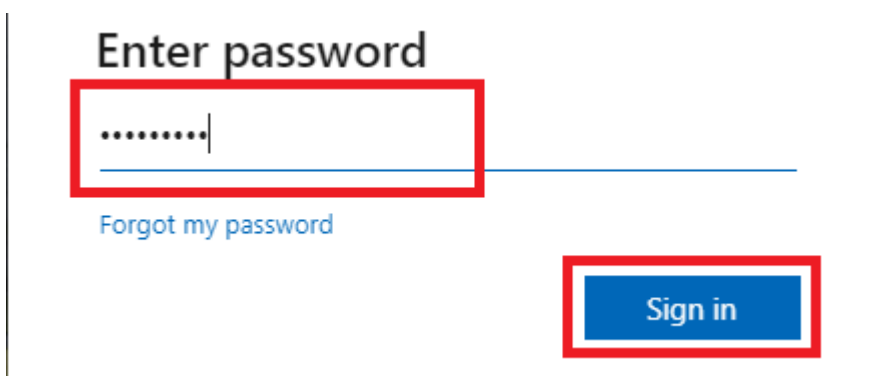

5. Enter your password and click "Sign in"

6. If your O365 account uses Multi Factor Authentication (MFA) you will be texted a code. Enter the code and click "Verify"

Enter code

💬 We texted your phone +XXX XXXXXXX04. Please enter the code to sign in.

Code

☐ Don't ask again for 60 days

Having trouble? Sign in another way

More information

Verify

7. On the "Stay signed in" page click "Yes". You will then be logged into your Blackboard account

Stay signed in?

Do this to reduce the number of times you are asked to sign in.

☐ Don't show this again

No   **Yes**