LAB EXERCISE 2 (SECJ1013)

PROGRAMMING TECHNIQUE 1

SEM 1, 2024/2025

INSTRUCTIONS TO THE STUDENTS

- *This exercise must be done **individually**.*
- *Your program must follow the input and output as required in the text and shown in the examples. You must test the programs with (but not limited to) all the input given in the examples.*
- *Any form of plagiarism is **NOT ALLOWED**. Students who copied other students' assignments will get **ZERO** marks (both parties, students who copied, and students that share their work).*
- *Please insert your **name, matrics number, and date** as a comment in your solution.*

SUBMISSION PROCEDURE

- *Only one file is required for the submission, which is the source code (the file with the extension .cpp).*
- *Submit the assignment via the UTM's e-learning system.*

QUESTION

Write a complete C++ program that reads an **integer** number and then calculate the sum of its digits. After that, identify whether the sum of digits for the integer is a multiple of 3, 4, and/ or 5.

Hint: You should use operator divide (/) and modulus (%) and **post-test loop** to answer this question.

Example 1

```
Enter an integer number: 1235
5 + 3 + 2 + 1 = 11
11 is odd number
```

Example 2

```
Enter an integer number: 6545
5 + 4 + 5 + 6 = 20
20 is even number & multiples of 4
and 5
```

Example 3

```
Enter an integer number: 89251
1 + 5 + 2 + 9 + 8 = 25
25 is odd number & multiples of 5
```

Example 4

```
Enter an integer number: 98762
2 + 6 + 7 + 8 + 9 = 32
32 is even number & multiples of 4
```

Note: The number in **bold** indicates input entered by the user.