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| **Programming II**  Diploma in IT / CSF / DS  Year 1 (2022/23) Semester 2 | Week **14** |
| **1** hour |
| **Practical 10: Exception Handling & Data Validation** | |

**OBJECTIVES**

At the end of this exercise, you should be able to validate data by handling exceptions

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| **IMPORTANT**   * Create a folder, **Week14**, in your hard disk. * For each question, you will be creating a new Console Appproject, **Snnnnnnnn\_Question##**, in the **Week14** folder created above *(note:* ***Snnnnnnnn*** *is your Student Number and ## is the question number).* Type the program in the Program class of each project. * At the end of the session, copy the folder **Week14** folder (which contains all your work) to PRG2 network folder: **\\ictspace.ict.np.edu.sg\PRG2** |

1. The question below is from Practical 1 - Question 4. Modify your solution to validate all data inputs as well as using exception handling.

Admin Menu [using methods, loop & nested if]

Write a C# program that display the main menu as shown below.

Convert the program done in the 3 questions above into methods, call the corresponding method when the user enters the option between 1 and 3.

Display a message indicating that the option is invalid when the user enters any value outside the option.

The program will display the main menu repeatedly until the user enters a 0.

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| ------------- MENU --------------  [1] Calculate Body Mass Index  [2] Calculate Discount  [3] Display Multiplication Table  [0] Exit  ---------------------------------  Enter your option : 1  BMI Calculation  Enter your weight : 65  Enter your height : 1.7  Your BMI is 22.49134948096886  ------------- MENU --------------  [1] Calculate Body Mass Index  [2] Calculate Discount  [3] Display Multiplication Table  [0] Exit  ---------------------------------  Enter your option : -1  Invalid option! Please try again.  ------------- MENU --------------  [1] Calculate Body Mass Index  [2] Calculate Discount  [3] Display Multiplication Table  [0] Exit  ---------------------------------  Enter your option : 0  Bye |
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**Plagiarism Warning**

**If a student is found to have submitted work not done by him/her, he/she will not be awarded any marks for this practical. Disciplinary action may also be taken.**

**Similar action will be taken for student who allows other student(s) to copy his/her work.**