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| **LAB101Assignment** | **Type:** | **Short Assignment** |
| **Code:** |  |
| **LOC:** | **95** |
| **Slot(s):** | **1** |

**Title**

Using a simple menu to manage program functions.

**Background**

N/A

**Program Specifications**

Design the following simple menu:

1- Processing date data

2- Character data

3- Quit

Select an option:

Option 1: users input date, month, and year. The program checks if they are valid date, month, and year.

Option 2: users input 2 characters. The program outputs in descending orders of ASCII codes of all characters between the 2 inputted characters, inclusively.

* Example inputs: ca

Output: c: 99  
b: 98  
a: 97

Option 3: exit the program.

***Function details:***

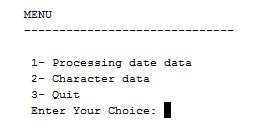
1. Function 1: Display a menu and asks users to select an option.

* Users run the program, the program displays a menu and asks users to select an option: 1, 2, or 3.
* Users select an option, perform Function 2.

1. Function 2: Perform selected function.

* Option 1: asks users to input date, month, and year, then checks and outputs if they are valid values of date, month, and year. After finishing option 1, display the menu.
* Option 2: asks users to input 2 characters, then outputs in descending orders of ASCII codes of all characters between the 2 inputted characters, inclusively. After finishing option 2, display the menu
* Option 3: exit the program.

***Expectation of User interface:***



**Guidelines**

**Function 1:**

Only need to check for each component of the inputted date format:

For date: from 1 to 31 for every month; except 28 dates for February.

For month: form 1 to 12.

For year: from 1900 to 9999.

**Function 2:**

Convert a character to ASCII code:

(int) char

Convert an ASCII code to a character:

char c = a;