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| **LAB101Assignment** | **Type:** | **Short Assignment** |
| **Code:** |  |
| **LOC:** | **69** |
| **Slot(s):** | **1** |

**Title**

Use simple menu to manage program functions.

**Background**

N/A

**Program Specifications**

Design the following simple menu:

1- Quadratic equation

2- Bank deposit problem

3- Quit

Select an option:

Option 1: Users input coefficients a, b, and c of a quadratic equation. Then, the program calculates and outputs the roots of the inputted equation.

Option 2: Users input:

* + Deposits (a positive number)
  + Deposit interest rates (a positive number < 0.1)
  + Number of deposit months (a positive number)

Then programs calculates and outputs the total amount received.

Option 3: Exit the program.

***Function details:***

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

* Users run the program. The program prompts users to select an option.
* Users select an option, perform Function 2.

1. Function 2: Perform function based on the selected option.

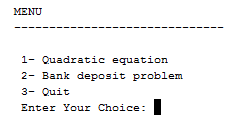
* Option 1: Users input coefficients a, b, and c of a quadratic equation. Then, the program calculates and outputs the roots of the inputted equation. After completing option 1, go back to menu
* Option 2: Ask users to input:
  1. Deposits (a positive number)
  2. Deposit interest rates (a positive number <= 0.1)
  3. Number of deposit months (a positive number)

Then programs calculates and outputs the total amount received.

After completing option 2, go back to menu

* Option 3: exit the program.

***Expectation of User interface:***



**Guidelines**

**Function 1:**

Use “math.h” library for math-related functions

**Function 2:**

Total amount received = deposit \* interest rate \* Number of deposit months