

Programming Project #2: Track My Expenses Using Array

Objectives:

- Perform C++ string object manipulation
- Understand how to manipulate data using arrays
- Handle input errors and invalid values
- Design and create a well-structure program using C++ basic programming constructs

Description:

Write a menu-driven program named “**TrackMyExpensesUsingArray**” that provides the following options:

1. Show All
2. Spend
3. Search expenses containing this string
4. Search expenses with greater than or equal to this amount
5. Exit

It allows the user to select a menu option to display all expenses, add new entry, search for a substring and find the list of entries greater a given amount.

Requirements:

1. The program must **produce the same output as provided**. The output should be formatted nicely as given.
2. The program must use two arrays (one array for the amounts and one array for the description)
Note: please do not use C++ class or struct for this assignment as this is an array usage practice. C++ class will be required for the next assignment.
3. The program must not use global variables. In another words, it must use local variables and pass-by-value or pass-by-reference parameters.
4. The program must define the maximum number of entries such as 1000 and keeps track of the actual count of the current number of expenses entered by the user
5. You should not use data file to save or read from. All operations should be done through the use of arrays and array indices.

Required error handling:

The program MUST perform the following checks:

1. Check for invalid amount (negative or 0 number)
2. Description cannot be empty.
3. Search is case-insensitive