Assignment 3 While Loop

CEC – Computer Science

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Items Due

Source Code for Menu-Calculator

Instructions

Complete the coding directive in an Intellij IDEA project with the assignment name (e.g. Menu-Calculator) and package name ceccs. Login to the file server at cec-code-lab.aps.edu and create a folder with the assignment name (e.g. Assignment 3). Locate the fileName.java) files of your source code, then upload them to into the assignment folder. Code will be downloaded and archived for grading on the assignment due date.

Be careful to look at the specific requirements for each program!

Menu-Calculator

Write a calculator program that uses the text terminal and repeats until the user selects a quit option. The user selects an operation, then gives two inputs. Then reports the result. After each use, the user is presented with same menu until they select a quit option.

- Print program title or welcome message identifying the program and what it is.
- Present a menu of options. Options can be input as either numbers, characters or words. The menu options should include *add *subtract *multiply *divide *quit
- If the user selects something besides quit, prompt the user for both values. Store them as double type.
- Create a String variable to hold the output message.
- Print the output message.
- Repeat the menu until quit is selected.
- Detect invalid menu selections, and print an error message followed by the menu again.

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Sample Output
This program is a four-function calculator.
What would you like to do?
                           [3] multiply
[1] add
           [2] subtract
                                           [4] divide
                                                          [0] quit
Input the first value.
Input the Second value.
-.5
25.0 * -0.5 = -12.5
What would you like to do?
                           [3] multiply
                                         [4] divide
                                                          [0] quit
[1] add
           [2] subtract
0
Goodbye.
```