ST10116374

PROG7312 POE

Readme

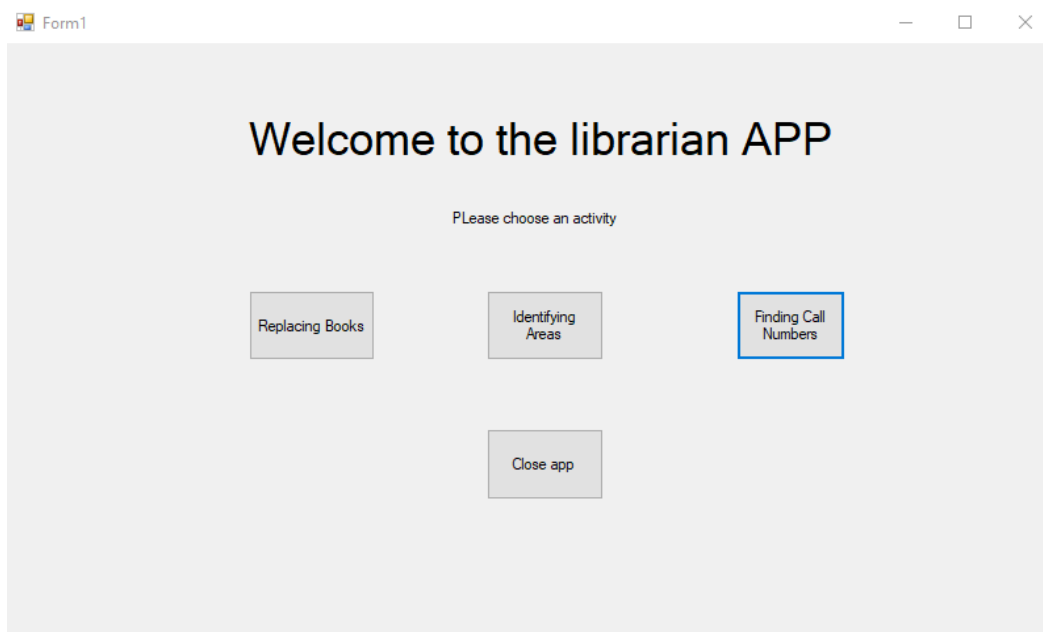Here is the GitHub link to the project/POE: https://github.com/VCDBN/prog7312-poe-KevinBeranrdST10116374

It's in the master2 branch because the first one was giving me errors.

Feedback for part 1: Changed it so that user can see whether they got the correct order or not
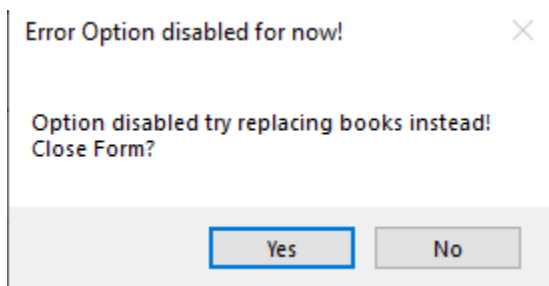
Feedback for part 2: Removed the progress bar in favor of a star that will appear when the user gets the correct answers.

Part 1

To start the application run it in Visual Studio and press the start/ green button on the top you will then be given this first screen when starting the application:

Here you can choose between three activities Replacing Books, Identifying Areas and Finding Call Numbers. The only button that works is the 'Replacing Books' and 'Close app' buttons. The close app button will exit the application and the Replacing Books will take you to the second page.

This is what is shown when you press the other two buttons and here you can choose to close the application or press no and continue

ReplaceBooksFormcs

Replace Books
Sort call number in ascending order to one box to the next

Left List		Right List
005.73 JAM	111.98 DFE	005.73 JAM
278.47 NAY		111.98 DFE
111.98 DFE	Add call	278.47 NAY
987.11 QWE		
001.65 MIK	Show Progress	Clear Items
035.14 JIM		
008.47 NEX		
789.12 QPO		
114.14 BQS		
132.63 KXI		

Generate call Numbers

Check Order

Use this button to check wether your callnumbers are in the right asceding order

Return/Close

On the second page is where you can sort the call number from the right list box into the left list box by using the text box between them and can click the add call button to add the number. The right list box will only generate the numbers once you have clocked the button under it and the right button check order is used to arrange the left box into the ascending order. The Clear items button will clear the left list box of its items and you can start again. The progress bar will update you on your progress each time you click the show progress button. Finally, the return/close button will take you back to the first page or it can close the application instead if you want.

Part 2

This is the page you will see when you choose the Identifying areas button. Here we can the list boxes that will hold our data from the dictionary data.

This is what you will see when you click the Call Number to Desctrition button, that populates the left box with four call numbers and the right box with 7 descriptions. How this works is that you must click on one of each of the text from each box like in the above image. When this is done, you can then click check that will tell you if you have guessed the right call number to the right description, telling you whether you have chosen correctly or incorrectly. Clicking the Call Number to Desctrition button will repopulate the left box with new call numbers.

Identifying_Areas_Form

Welcome to Identifying Areas

Click one of the Items from both boxes to comapre then click check to make sure you have selected the right answer
To do call number to description click the "Call number to Desctriptions" than the other one for the other way around

Call Number Listbox

```
000
100
200
300
400
500
600
```

```
Science
Philosophy & Psychology
Relegion
Socaial Sciences
```

Descriptions Listbox

| Call number to Descriptions | Check | Descriptions to Call Numbers |

This Button will load 4 itmes in this list box and 7 in the other

This Button will load 4 itmes in this list box and 7 in the other

Return/Close

This is what you get when you click the Description to call number button, it's like the first time you chose the other button now the descriptions are only 4 and are randomly chosen.
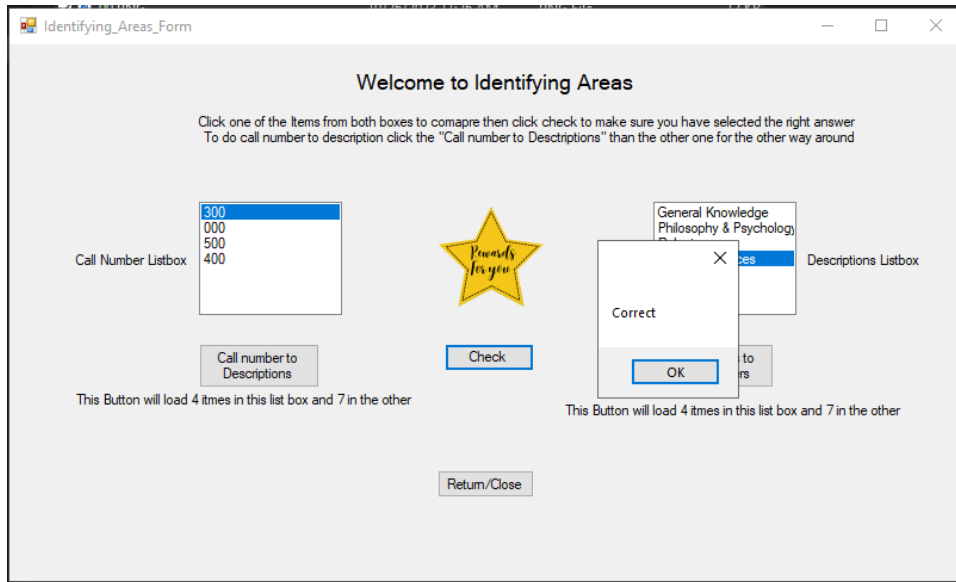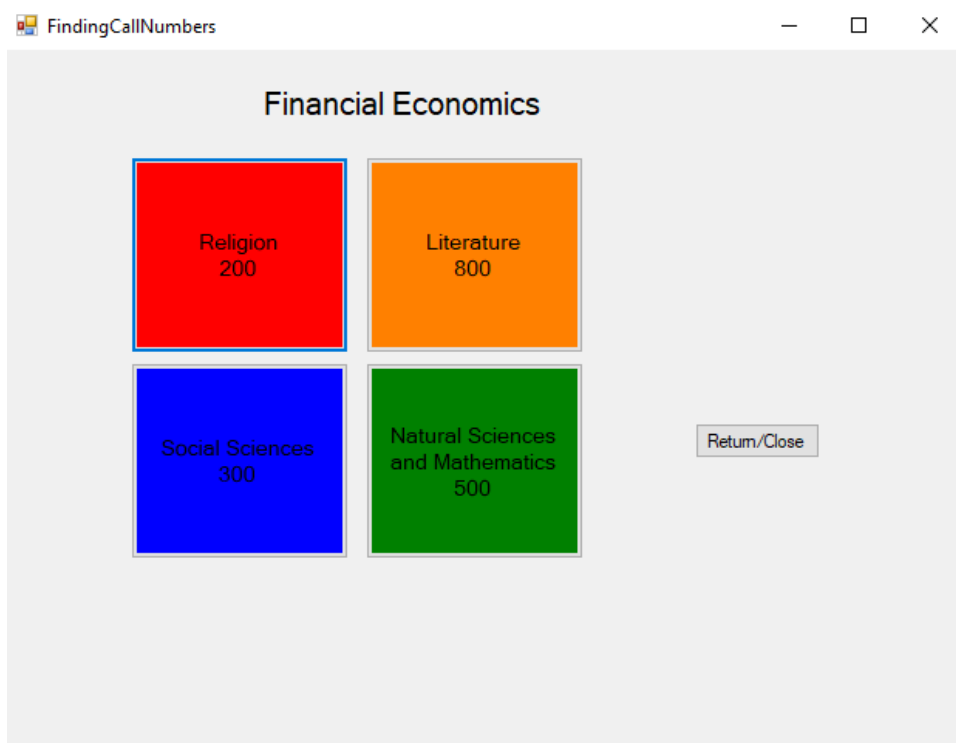

Technology

Incorrect

OK

Button will load 4 itmes in this

This is what you will get when you chose incorrectly, clicking ok will let you continue with the program.

Identifying_Areas_Form

Welcome to Identifying Areas

Click one of the Items from both boxes to comapre then click check to make sure you have selected the right answer
To do call number to description click the "Call number to Desctriptions" than the other one for the other way around

Call Number Listbox

300
000
500
400

Call number to Descriptions

This Button will load 4 itmes in this list box and 7 in the other

Check

Correct

OK

General Knowledge
Philosophy & Psychology

ces   Descriptions Listbox

to
rs

This Button will load 4 itmes in this list box and 7 in the other
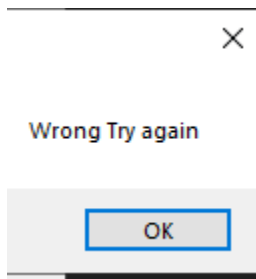
Return/Close

This how is it will look when you get all the correct choices. Notice you will receive a stat for a correct choice made and the star will be removed for a wrong choice made

Finale POE

The data file is called FindingCallNumbersTreeData.json and the app will create this file if not found but the data in the file is what is used for the quiz should be in ST10116374_PROG7312_POE\bin\Debug
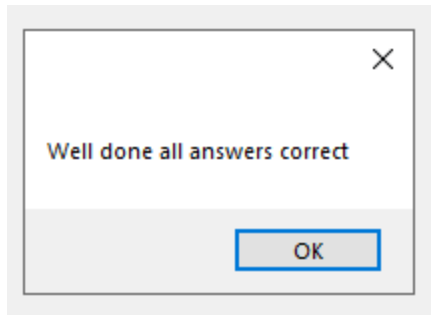

This is what you will find when you click finding call numbers, you will see a quiz the colored blocks are buttons that you can click. One is correct, the others are wrong. You must get the correct answer three times before you can get the right answers.
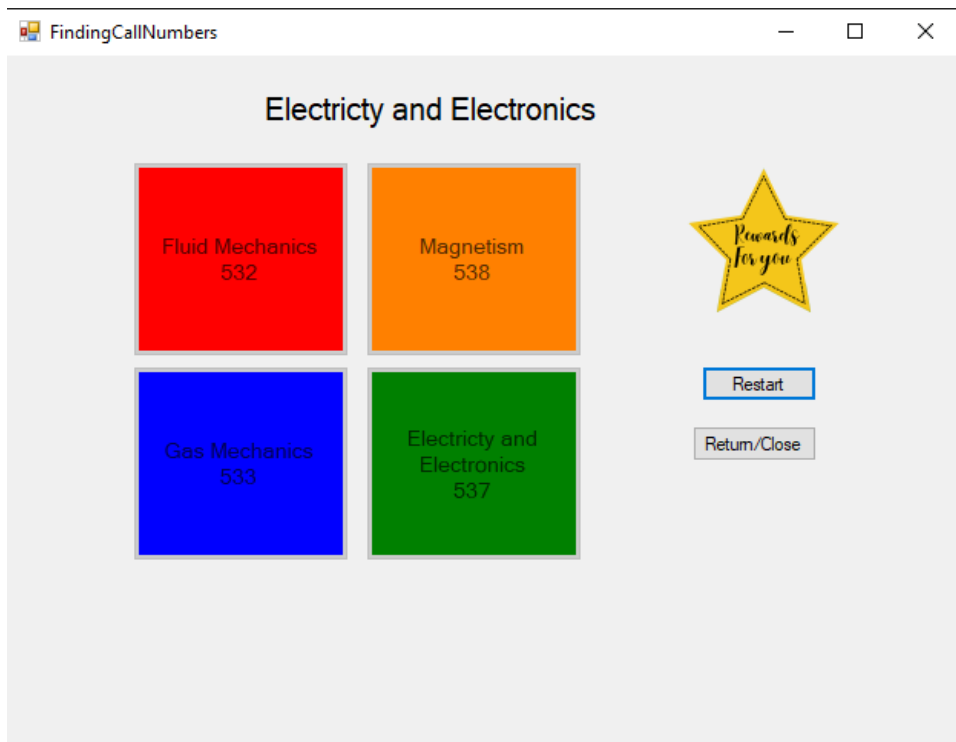

This is the pop-up message for wrong answers.

This is the pop-up message for write anwsers.

When you get three correct answers you can the seen a star that you received (this is the gamification feature) for completing the quiz click the restart button that will remove the start and the button to begin again or return/close button to try the other games

Reference List for finale POE:

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GeeksforGeeks. 2023. Tree Traversal Techniques – Data Structure and Algorithm Tutorials. [Online]. Available at: https://www.geeksforgeeks.org/tree-traversals-inorder-preorder-and-postorder/ [Accessed 19 November 2023].

GeeksforGeeks. 2023. Print path between any two nodes in a Binary Tree. [Online]. Available at: https://www.geeksforgeeks.org/print-path-between-any-two-nodes-in-a-binary-tree/ [Accessed 19 November 2023].

GeeksforGeeks. 2023. Search a node in Binary Tree. [Online]. Available at: https://www.geeksforgeeks.org/search-a-node-in-binary-tree/ [Accessed 19 November 2023].

GeeksforGeeks. 2023. Select a Random Node from a tree with equal probability. [Online]. Available at: https://www.geeksforgeeks.org/select-random-node-tree-equal-probability/ [Accessed 19 November 2023].

Arora. P. How can i get the Parent in Binary tree. Stack overflow. [Online]. Available at: https://stackoverflow.com/questions/43774655/how-can-i-get-the-parent-in-binary-tree [Accessed] [19 November 2023].

How to make a simple multiple choice quiz game in windows form and c# . 2020. YouTube video, added by Moo ICT. [Online]. https://www.youtube.com/watch?v=hQDjz2ISklw&t=973s [Accessed 19 November 2023]

Code Walk Through Binary Tree. 2020. YouTube video, added by VCSOIT. [Online]. Available at: https://www.youtube.com/watch?v=L6Buu-xMlNw [Accessed 19 November 2023]

Application requirements

Operating Systems

Windows 7

Windows 8

Windows 10

Windows 11

Hardware Environment

Processor: x86 or x64

RAM: 512 MB (minimum), 1 GB (recommended)

Hard disk: up to 4 GB of space may be required. However, even if you install it with a different drive, 400 MB of free space is required in the boot drive.

Development Environment

Microsoft Visual Studio 2008/2010/2012/2013/2015/2017/2019/2022

.NET Framework 2.0/3.5/4.0/4.5/4.5.1/4.6

Lower Sync fusion .NET frameworks can be used in applications because they are compatible with .NET 4.7, .NET 4.7.1, .NET 4.7.2, and .NET 4.8. For example, in the application, the Sync fusion 4.6 .NET framework assembly can be referred to as 4.7 or higher target versions.

.NET Core supported from 2019 Volume 1 release (17.1.0.32).