Structured English

PROCEDURE Main

1. Initialise all data structures.
2. Display the options of actions that can be performed.
3. Take an input of which action is to be performed.
4. Call the appropriate PROCEDURE, otherwise display an error message.

PROCEDURE Task11

1. Prompt for the input of item description.
2. Input an item description.
3. Prompt for the input of the choice of strict searching.
4. Input the choice of strict searching.
5. Call the SearchUniqueItemDescription FUNCTION with the description and choice of strict searching as the arguments, to obtain the relevant position of the searched item description.
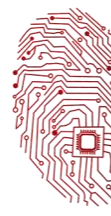6. Compare the value of the position and give an appropriate output.

PROCEDURE Task12

1. Prompt for the input of item description.
2. Input an item description
3. Call the PROCEDURE SearchMultipleItemDescription with the item description as the argument.

PROCEDURE Task13

1. Prompt for the input of an item description.
2. Input an item description
3. Prompt for the input of the choice of strict searching.
4. Input the choice of strict searching.
5. Call the FUNCTION SearchUniqueItemDescription with the item description and choice of strict searching as the arguments, to obtain the relevant position of the item description.
6. If the item is found, display all the relevant information from all the arrays, otherwise display an appropriate message

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PROCEDURE Task14

1. Prompt for the item level to search for.
2. Input item level.
3. Call the PROCEDURE DisplayRecordsBelowLevel with the item level as the argument.

PROCEDURE Initialise

1. Loop through all the elements in the arrays and initialise to null values (zero or empty string) according to the appropriate data types.
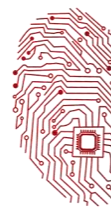

PROCEDURE PopulateDataEntry

1. Loop through each index of the arrays. For each iteration:
2. Output the item number.
3. Prompt for an item code.
4. Input an item code.
5. Prompt for an item description.
6. Input an item description.
7. Prompt for an item price.
8. Input a price.
9. Prompt for the quantity of items in stock.
10. Input the quantity in stock.

PROCEDURE PopulateAuto

1. Loop through each index of the arrays. For each iteration:
2. Assign appropriate predetermined values to each item.
3. Output a completion message.
4. Call the PROCEDURE DisplayAllRecords.

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FUNCTION SearchUniqueItemDescription(Description, Strict)

1. Loop through the number of items in the arrays. For each iteration:
2. Compare the value of Boolean value of Strict.
3. If Strict is TRUE, then compare the value of ItemDescription to the Description parameter passed, and assign the value TRUE to a Boolean flag.
4. If Strict is FALSE, then compare the uppercase values of ItemDescription to the Description parameter passed, and assign the value TRUE to a Boolean flag.
5. After the iterations, if the matching item description is found, return the position at which it is found. Otherwise, return the value 0.

PROCEDURE SearchMultipleItemDescription(Description)

1. Loop through the number of items in the arrays. For each iteration:
2. Compare the uppercase values of ItemDescription and the Description argument passed to the FUNCTION.
3. If they match, display all the relevant information from all the arrays. Otherwise, display an appropriate error message.

PROCEDURE DisplayAllRecords

1. Loop through each array, and display the corresponding elements in each iteration.

PROCEDURE DisplayRecordsBelowLevel(Level)

1. Loop through the number of items in the arrays. For each iteration:
2. Compare the value of NumberInStock to the Level argument passed to the FUNCTION.
3. If NumberInStock is less than Level, then output all the corresponding elements of the arrays for that item.