Pseudo-code:

1.Main:

Print "Welcome to TheDesk"

Call optionsSelection()

2.optionsSelection:

Create a list of options

Create a list of corresponding option numbers

Print the available options

Create an empty list called arrlist

Create a list called expenses and add predefined expenses to it

Ask the user for their choice

Iterate through the available options:

If the user's choice matches an option:

Perform the corresponding action:

Case 1:

Print the saved expenses

Call optionsSelection()

Case 2:

Ask the user for the expense value to add

Add the value to the expenses list

Print a confirmation message

Add arrlist to the expenses list

Print the updated expenses

Call optionsSelection()

Case 3:

Ask the user to confirm deleting all expenses

If the confirmation matches the chosen option:

Clear the expenses list

Print the cleared expenses

Print a message confirming the deletion

Else:

Print an error message

Call optionsSelection()

Case 4:

Sort the expenses list in ascending order

Call optionsSelection()

Case 5:

Ask the user for an expense to search

Search for the expense in the expenses list

If found, print the index of the expense

If not found, print a message indicating it was not found

Call optionsSelection()

Case 6:

Close the application

Default:

Print an error message for an invalid choice

3.closeApp:

Print "Closing your application... Thank you!"

4.searchExpenses(arrayList):

Get the length of the expenses list

Ask the user for an expense to search

Set a variable "found" to false

Iterate through the expenses list:

If an expense matches the searched expense:

Print the index of the expense

Set "found" to true

If "found" is still false:

Print a message indicating the expense was not found

5.sortExpenses(arrayList):

Get the length of the expenses list

Sort the expenses list in ascending order

Print the sorted expenses