**Source Code for Fix Bugs Of The Application:-**

**GitHub Reciprocity Link**:- https://github.com/kapildavey/Phase1.git

**Source Code:-**

**package** fixBugsApplication;

**import** java.util.ArrayList;

**import** java.util.Collections;

**import** java.util.Scanner;

**public** **class** FixBugsApplication {

**public** **static** **void** main(String[] args)

{

System.***out***.println("\n-------------------------------------\n");

System.***out***.println("\t\*\*\*\*\*Welcome to Desk \*\*\*\* \n");

System.***out***.println("\n----------------------------------------\n");

*optionsSelection*();

}

**private** **static** **void** optionsSelection()

{

String[] arr = { "1. I wish to review my expenditure", "2. I wish to add my expenditure",

"3. I wish to delete my expenditure", "4. I wish to sort the expenditures",

"5. I wish to search for a particular expenditure", "6. Close the application" };

**int**[] arr1 = { 1, 2, 3, 4, 5, 6 };

**int** slen = arr1.length;

**for** (**int** i = 0; i < slen; i++)

{

System.***out***.println(arr[i]);

}

ArrayList<Integer> arrlist = **new** ArrayList<Integer>();

ArrayList<Integer> bikeexpenses = **new** ArrayList<Integer>();

bikeexpenses.add(1111);

bikeexpenses.add(2222);

bikeexpenses.add(3333);

bikeexpenses.add(4444);

bikeexpenses.add(5555);

bikeexpenses.addAll(arrlist);

System.***out***.println("\nEnter your choice:\t");

Scanner sc = **new** Scanner(System.***in***);

**int** options;

**do**

{

options = sc.nextInt();

**switch** (options)

{

**case** 1:

System.***out***.println("Your saved bikeexpenses are listed below: \n");

System.***out***.println(bikeexpenses + "\n");

**break**;

**case** 2:

System.***out***.println("Enter the value to add your bikeExpense: \n");

**int** value = sc.nextInt();

bikeexpenses.add(value);

System.***out***.println("Your value is updated\n");

bikeexpenses.addAll(arrlist);

System.***out***.println(bikeexpenses + "\n");

**break**;

**case** 3:

System.***out***.println("You are about the delete all your bikeexpenses! \nConfirm again by selecting the same option...\n");

**int** con\_choice = sc.nextInt();

**if** (con\_choice == options) {

bikeexpenses.clear();

System.***out***.println(bikeexpenses + "\n");

System.***out***.println("All your bikeexpenses are erased!\n");

}

**else**

{

System.***out***.println("Oops... try again!");

}

**break**;

**case** 4:*sortExpenses*(bikeexpenses);

**break**;

**case** 5:*searchExpenses*(bikeexpenses);

**break**;

**case** 6:*closeApp*();

**break**;

**default**:

System.***out***.println("You have made an invalid choice!");

**break**;

}

}

**while** (options != 6);

}

**private** **static** **void** closeApp()

{

System.***out***.println("Closing your application... \nThank you!");

}

**private** **static** **void** searchExpenses(ArrayList<Integer> arrayList)

{

Scanner searchScanner = **new** Scanner(System.***in***);

System.***out***.println("Enter the bikeexpense you need to search:\t");

**int** searchNum = searchScanner.nextInt();

System.***out***.println(arrayList.contains(searchNum) ? "Found your bikeexpense: " + searchNum

: "Sorry not found that bikeexpense, Please try again.");

}

**private** **static** **void** sortExpenses(ArrayList<Integer> arrayList)

{

Collections.*sort*(arrayList);

System.***out***.println(arrayList);

}

}