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| **4COSC006C: Software Development I -Personal Finance Tracker (Using Tkinter) – TEST PLANS** Student Name/ID: P. A. Prasansa Ramidu ( w2084743 )  Seminar Day/Time: Module Tutor: Mr. Guhanathan Poravi |

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| Student Name: Student ID: | | | | |
| TEST PLAN  Submit completed test plans | | | | |
| Test  No. | Test Input | Expected Result | Actual Result  (or state ‘not attempted’) | Pass / Fail  (‘Actual Result’ matches ‘Expected Result = Pass’) |
| 1 | Imagin this is your first-time execution of the program so now in the execution, load the existing transactions from json file assign it to a variable like this:  self.transactions = self.load\_transactions("transactions.json")  Then call out the display transaction function in FinanceTrackerGUI instance then It’s gonna display the transactions data in the GUI tree. | Transactions Displayed Sucessfully. | Transactions Displayed Sucessfully. | Pass |
| Validation | | | | |
| 2 | The previously told that when loading the existing transactions from the json file if the file doesn’t existing anymore, it will raise an error and catch the error as FileNotFoundError | File not found.  return {} | File not found.  return {} | Pass |
| 3 | If the json file exist but the json file transactions not in a correct format it will raise an error and catch the error as json.JSONDecodeError | File data is not in a correct json format.  return {} | File data is not in a correct json format.  return {} | Pass |
| 4 | Loading the transactions data from the json file if an unexpected error occurred then catch the error, Exception as e | An error occurred e  return {} | An error occurred e  return {} | Pass |
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| Reminder: The user giving to the amount\_entry and date\_entry assign to amount\_str and date\_str | | | | |
| 5 | In the FinanceTrackerGUI if the user enter data in the amount and the date entry fields then press the Add Transaction Button then the command add\_transaction function gonna get called after that get:  new\_transaction = {“amount”: amount, “date”: date}  if there is a category in the loaded transactions then the new\_transaction append to that accordingly.  but if there nothing except a dictionary in the loaded transactions then as the program specified the new\_transaction that contain in the list will add to the loaded transactions according to a new category.  Then call out the save\_transactions function to write those transactions to the json file.  Then call out the display transactions function to display the transactions in the GUI tree.  After that call out the reset function to Clear out the amount, date and if the user accidently enter transaction id entry field also.  If the user enter,  date\_entry(YYYY-MM-DD) :2010-04-03  amount\_entry :30000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 6 | If the user enter,  date\_entry(YYYY-MM-DD):2011-04-10  amount\_entry :40000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 7 | If the user enter,  date\_entry(YYYY-MM-DD):2014-04-10  amount\_entry :20000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 8 | If the user enter,  date\_entry(YYYY-MM-DD):2015-04-10  amount\_entry :25000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 9 | If the user enter,  date\_entry(YYYY-MM-DD):2011-05-07  amount\_entry :-10000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 10 | If the user enter,  date\_entry(YYYY-MM-DD):2011-04-07  amount\_entry :-12000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 11 | If the user enter,  date\_entry(YYYY-MM-DD):2016-05-07  amount\_entry :-14000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 12 | If the user enter,  date\_entry(YYYY-MM-DD):2016-06-07  amount\_entry :-16000 | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Transactions Added Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| Validation | | | | |
| 13 | If the user enter,  date\_entry(YYYY-MM-DD):20230201  amount\_entry :4000  Now It’s gonna raise an error as ValueError | Invalid amount or date format. | Invalid amount or date format. | Pass |
| 14 | If the user enter,  date\_entry(YYYY-MM-DD):2023/02/01  amount\_entry :-8000  Now It’s gonna raise an error as ValueError | Invalid amount or date format. | Invalid amount or date format. | Pass |
| 15 | If the user enter,  date\_entry(YYYY-MM-DD): transaction  amount\_entry :-8000  Now It’s gonna raise an error as ValueError | Invalid amount or date format. | Invalid amount or date format. | Pass |
| 16 | If the user enter,  date\_entry(YYYY-MM-DD): 2015-03-04  amount\_entry : transaction  Now It’s gonna raise an error as ValueError | Invalid amount or date format. | Invalid amount or date format. | Pass |
| 17 | If there any unexpected error occur in try block, that error gonna catch by the Exception as e | An error occurred: e | An error occurred: e | Pass |
| 18 | If the user enter,  date\_entry(YYYY-MM-DD): empty  amount\_entry : empty | Please enter both amount\_str and date\_str. | Please enter both amount\_str and date\_str. | Pass |
| 19 | If the user enter,  date\_entry(YYYY-MM-DD): empty  amount\_entry : 3200 | Please enter both amount\_str and date\_str. | Please enter both amount\_str and date\_str. | Pass |
| 20 | If the user enter,  date\_entry(YYYY-MM-DD): 2005-04-10  amount\_entry : empty | Please enter both amount\_str and date\_str. | Please enter both amount\_str and date\_str. | Pass |
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| Reminder: The user giving to the amount\_entry, date\_entry and transaction\_id\_entry assign to amount\_str, date\_str and transaction\_id\_str | | | | |
| 21 | First of all the user have to fill out the amount\_entry, date\_entry and transaction\_id\_entry in the GUI Then Press the Update Transaction Button the the command line got executed that means it’s gonna call the update\_transaction function and according to get() function get those entry fields data and assign to amount\_str, date\_str and transaction\_id\_str  So now if the user enter,  amount\_entry :2000  date\_entry(YYYY-MM-DD):2012-01-08  transaction\_id\_entry:0 | transaction for Salary:  0 amount: 30000.0 date: 2010-04-03  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Salary:  0 amount: 30000.0 date: 2010-04-03  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 22 | If the user enter,  amount\_entry :5000  date\_entry(YYYY-MM-DD):2014-08-02  transaction\_id\_entry:1 | transaction for Salary:  1 amount: 40000.0 date: 2011-04-10  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Salary:  1 amount: 40000.0 date: 2011-04-10  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 23 | If the user enter,  amount\_entry :-8000  date\_entry(YYYY-MM-DD):2014-08-02  transaction\_id\_entry:0 | transaction for Groceries:  0 amount: -10000.0 date: 2011-05-07  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Groceries:  0 amount: -10000.0 date: 2011-05-07  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 24 | If the user enter,  amount\_entry :-9000  date\_entry(YYYY-MM-DD):2014-08-02  transaction\_id\_entry:1 | transaction for Groceries:  1 amount: -12000.0 date: 2011-04-07  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Groceries:  1 amount: -12000.0 date: 2011-04-07  Transactions Updated Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 25 | If the user enter,  amount\_entry :2000  date\_entry(YYYY-MM-DD):2016-05-02  transaction\_id\_entry:11 | transaction for Salary:  transaction id not found.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction  for Salary:  transaction id not found.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| Validation | | | | |
| 26 | If the user enter,  amount\_entry :2000  date\_entry(YYYY-MM-DD):20160502  transaction\_id\_entry:11  In this the try block gonna raise an error so that error catch as ValueError | Invalid amount or date or transa\_id format. | Invalid amount or date or transa\_id format. | Pass |
| 27 | If the user enter,  amount\_entry :2000  date\_entry(YYYY-MM-DD):2016-06-02  transaction\_id\_entry:12  In this the try block gonna raise an error so that error catch as IndexError | transaction for Salary:  transaction id not found  Transactions Displayed Sucessfully  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Salary:  transaction id not found  Transactions Displayed Sucessfully  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 28 | So in the try block if there any unexpected error occurred that error gonna catch as Exception as e | An error occurred: e | An error occurred: e | Pass |
| 29 | If the user enter,  amount\_entry :3000  date\_entry(YYYY-MM-DD):empty  transaction\_id\_entry:0 | Please enter amount\_str, date\_str and transaction\_id\_str. | Please enter amount\_str, date\_str and transaction\_id\_str. | Pass |
| 30 | If the user enter,  amount\_entry :-3000  date\_entry(YYYY-MM-DD):empty  transaction\_id\_entry:empty | Please enter amount\_str, date\_str and transaction\_id\_str. | Please enter amount\_str, date\_str and transaction\_id\_str. | Pass |
| 31 | If the user enter,  amount\_entry :empty  date\_entry(YYYY-MM-DD):empty  transaction\_id\_entry:empty | Please enter amount\_str, date\_str and transaction\_id\_str. | Please enter amount\_str, date\_str and transaction\_id\_str. | Pass |
|  | | | | |
| Reminder: The user giving to the amount\_entry, date\_entry and transaction\_id\_entry assign to amount\_str, date\_str and transaction\_id\_str | | | | |
| 32 | First of all the user have to fill out the amount\_entry, date\_entry and transaction\_id\_entry in the GUI Then Press the Delete Transaction Button the the command line got executed that means it’s gonna call the delete\_transaction function and according to get() function get those entry fields data and assign to amount\_str, date\_str and transaction\_id\_str  So now if the user enter,  amount\_entry :2000  date\_entry(YYYY-MM-DD):2012-01-08  transaction\_id\_entry:0 | transaction for Salary:  0 amount: 2000.0 date: 2012-01-08  Transactions Deleted Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Salary:  0 amount: 2000.0date: 2012-01-08  Transactions Deleted Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 33 | If the user enter,  amount\_entry :5000  date\_entry(YYYY-MM-DD):2014-08-02  transaction\_id\_entry:1 | transaction for Salary:  1 amount: 20000.0 date: 2014-04-10  Transactions Deleted Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Salary:  1 amount: 20000.0 date: 2010-04-10  Transactions Deleted Sucessfully.  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 34 | If the user enter,  amount\_entry :5000  date\_entry(YYYY-MM-DD):2014-08-02  transaction\_id\_entry:11 | transaction for Salary:  transaction id not found  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. | transaction for Salary:  transaction id not found  Transactions Displayed Sucessfully.  amount, date and transaction id entry Fields Cleared Sucessfully. |  |
| Validation | | | | |
| 35 | If the user enter,  amount\_entry :2000  date\_entry(YYYY-MM-DD):20160502  transaction\_id\_entry:11  In this the try block gonna raise an error so that error catch as ValueError | Invalid amount or date or transa\_id format. | Invalid amount or date or transa\_id format. | Pass |
| 36 | If the user enter,  amount\_entry :2000  date\_entry(YYYY-MM-DD):2016-06-02  transaction\_id\_entry:12  In this the try block gonna raise an error so that error catch as IndexError | transactions for Salary:  transaction id not found  Transactions Displayed Sucessfully  amount, date and transaction id entry Fields Cleared Sucessfully. | transactions for Salary:  transaction id not found  Transactions Displayed Sucessfully  amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
| 37 | So in the try block if there any unexpected error occurred that error gonna catch as Exception as e | An error occurred: e | An error occurred: e | Pass |
| 38 | If the user enter,  amount\_entry :3000  date\_entry(YYYY-MM-DD):empty  transaction\_id\_entry:0 | Please enter amount\_str, date\_str and transaction\_id\_str. | Please enter amount\_str, date\_str and transaction\_id\_str. | Pass |
| 39 | If the user enter,  amount\_entry :-3000  date\_entry(YYYY-MM-DD):empty  transaction\_id\_entry:empty | Please enter amount\_str, date\_str and transaction\_id\_str | Please enter amount\_str, date\_str and transaction\_id\_str | Pass |
| 40 | If the user enter,  amount\_entry :empty  date\_entry(YYYY-MM-DD):empty  transaction\_id\_entry:empty | Please enter amount\_str, date\_str and transaction\_id\_str | Please enter amount\_str, date\_str and transaction\_id\_str | Pass |
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| 41 | When the user Click the Display Summary in GUI display\_summary command function gonna get called then it will display the each category total\_amount | Salary: Total Amount = 30000.0  Groceries: Total Amount = -47000.0  Summary Displayed Sucessfully | Salary: Total Amount = 30000.0  Groceries: Total Amount = -47000.0  Summary Displayed Sucessfully | Pass |
| Validation | | | | |
| 42 | If there any unexpected error occurred in the try block that error gonna catch by the Exception as e | An error occurred: e | An error occurred: e | Pass |
|  | | | | |
| 43 | If the User want to clear the amount\_entry, date\_entry and transaction\_id\_entry fields Click the Resetting Button | amount, date and transaction id entry Fields Cleared Sucessfully. | amount, date and transaction id entry Fields Cleared Sucessfully. | Pass |
|  | | | | |
| 44 | If the user want to get the sort the amount or sort the date press the Sort by Amount Button after you press one of them one at a time it will call the sort\_by\_column function | Transactions Displayed Sucessfully  Sorted Transaction Data According To The Date Or Amount Went Sucessfully | Transactions Displayed Sucessfully  Sorted Transaction Data According To The Date Or Amount Went Sucessfully | Pass |
| 45 | The user enter search entry field date or amount it dosen’t matter then the search\_transactions functions gonna get call | Search Transactions Went Successfully | Search Transactions Went Successfully | Pass |