University of Westminster

Software Development I

4COSC006C

Pseudocode

(Coursework 02)

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Personal_finance _tracker

1. Import json
2. Creat transaction dictonary to store transaction data
3. FUNTION load_transaction ():
4.   OPEN.json file in read mode
5.   IF file not found
6.   Initialize transaction dictionary as an empty dictionary
7.   END IF
8. ENDFUNTION
9. FUNTION save_transaction():
10.   OPEN .jason file in read mode
11.   WRITE transaction to the .json file
12. ENDFUNTION
13. FUNTION read_bulk_transaction _from_file():
14.   PROMPT for file name
15.   GET file name
16.   Convert prompt file in to .txt file
17.   OPEN .txt in read mode
18.   FOR line in file
19.   IF key in the transactions, then
20.   Append to the key
21.   ELSE
22.   Create key and add values
23.   END IF
24.   END FOR
25. END FUNTION
26. FUNTION add_transaction():
27.   PROMPT for type of the transaction
28.   GET transaction type
29.   PROMPT for description of the transaction
30.   GET description
31.   PROMPT for amount of transaction
32.   GET amount
33.   PROMPT for date in shown format
34.   Get date
35.   SAVE transaction value to a variable
36.   FOR line in file
37.   IF key in the transactions, then
38.   Append to the key

39.   ELSE
40.   Create key and add values
41.   ENDIF
42.   ENDFOR
43. END FUNTION
44. FUNTION view transaction ():
45.   Initialize i to zero
46.   Display i and key
47.   Initialize count to zero
48.   FOR values in value
49.   DISPLAY count and values
50.   ADD 1 to count
51.   END FOR
52.   ADD 1 to i
53. END FUNTION
54. FUNTION update transaction ():
55.   PROMPT for transaction type to update
56.   Get type of transaction
57.   DOWHILE TRUE
58.   PROMPT new amount, description and date
59.   GET new amount, description and date
60.   END WHILE
61.   SAVE new amount, description and date
62. END FUNTION
63. FUNTION delete_transaction ()
64.   PROMPT for the transaction type to delete
65.   GET the transaction type to delete
66.   DO WHILE TRUE
67.   PROMPT for transaction number to delete
68.   GET transaction number to delete
69.   END WHILE
70. END FUNTION
71. FUNTION display_summary ():
72.   DISPLAY total transaction type in the transaction dictionary
73. END FUNTION