

1. Creating Accounts

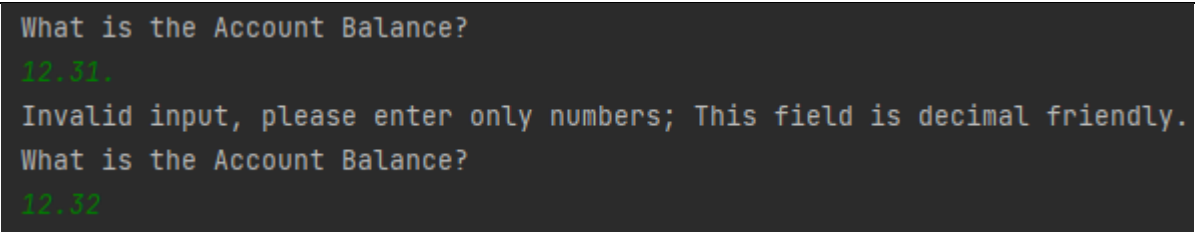
#1	Main Menu	<pre><-----Bank Of Bengaluru: Banking Application using Tree Map-----> Actions: 1. Create Accounts 2. List all Accounts 3. View an Account 4. Update an Account 5. Delete an Account 6. Print Statistics 7. Import 8. Export 9. Exit </pre>
#2	Entering the number accounts	<pre>1 How many accounts you would like to create? 5 Creating Accounts...</pre>

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#3	Entering account details	<pre>Creating Accounts... The Account ID for the new account is: 1 What is the name of the Account Holder? Poornima C What is the Account Type? Student What is the Account Balance? 12.1 Is the Account Active? true The Account ID for the new account is: 2 What is the name of the Account Holder? Sami Raju What is the Account Type? Loan What is the Account Balance? 129992.1 Is the Account Active? yes The Account ID for the new account is: 3 What is the name of the Account Holder? Ahaana Sami What is the Account Type? Student What is the Account Balance? 9991.1 Is the Account Active? n The Account ID for the new account is: 4 What is the name of the Account Holder? Vihaan Saminathan What is the Account Type? Student What is the Account Balance? 23.32 Is the Account Active? y</pre>	
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		<pre>The Account ID for the new account is: 5 What is the name of the Account Holder? Padmini C What is the Account Type? Senior Citizen What is the Account Balance? 12.31. Invalid input, please enter only numbers; This field is decimal friendly.! What is the Account Balance? 12.32 Is the Account Active? true Accounts created successfully, Select an option to proceed</pre>
#4	Account creation confirmation, and main menu	<pre>Accounts created successfully, Select an option to proceed <-----Bank Of Bengaluru: Banking Application using Tree Map-----> Actions: 1. Create Accounts 2. List all Accounts 3. View an Account 4. Update an Account 5. Delete an Account 6. Print Statistics 7. Import 8. Export 9. Exit</pre>

#5	Error handled while trying to enter characters for Account Id	N/A
#6	Error handled while trying to enter characters for Balance	 The screenshot shows a terminal window with a dark background. It displays a prompt 'What is the Account Balance?' followed by the user input '12.31.'. Below this, a red error message is shown: 'Invalid input, please enter only numbers; This field is decimal friendly.' The prompt is repeated, and the user input '12.32' is shown below it. <pre>What is the Account Balance? 12.31. Invalid input, please enter only numbers; This field is decimal friendly. What is the Account Balance? 12.32</pre>
#7	Error handled while trying to enter anything other than true/false for is active field	N/A (yes/no, true/false, y/n are handled) – also by default the status is true

2. Listing all accounts

#1	Listing all the accounts created during the above steps	<pre> 2 Fetching Accounts... Account{id=1, name='Poornima C', type='Student', balance=12.1, active=true} Account{id=2, name='Sami Raju', type='Loan', balance=129992.1, active=true} Account{id=3, name='Ahaana Sami', type='Student', balance=9991.1, active=false} Account{id=4, name='Vihaan Saminathan', type='Student', balance=23.32, active=true} Account{id=5, name='Padmini C', type='Senior Citizen', balance=12.32, active=true} <-----Bank Of Bengaluru: Banking Application using Tree Map-----> </pre>
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3. Viewing an account

#1	Entering the proper Account ID	<pre> 3 View details of the given Account id... Enter the Account ID: 1 Account Id: 1 Account Name: Poornima C Account Type: Student Account Balance: 12.1 Is the account active? true <-----Bank Of Bengaluru: Banking Application using Tree Map-----> </pre>
#2	Entering incorrect Account ID	<pre> View details of the given Account id... Enter the Account ID: 22 Account not found! </pre>

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4. Updating an account

#1	Updating on a valid account Id	<pre> 4 Update an Account for a given Account id... Enter the Account ID: 4 What is the name of the Account Holder? Sami Sami What is the Account Type? Student What is the Account Balance? 121.1 Is the Account Active? false Account{id=4, name='Sami Sami', type='Student', balance=121.1, active=false} Account Updated </pre>	
#2	Viewing all the accounts (including the updated one)	<pre> 5 Fetching Accounts... Account{id=1, name='Poornima C', type='Student', balance=12.1, active=true} Account{id=2, name='Sami Raju', type='Loan', balance=129992.1, active=true} Account{id=3, name='Ahaana Sami', type='Student', balance=9991.1, active=false} Account{id=4, name='Sami Sami', type='Student', balance=121.1, active=false} Account{id=5, name='Padmini C', type='Senior Citizen', balance=12.32, active=true} <-----Bank Of Bengaluru: Banking Application using Tree Map-----> </pre>	

#3	Trying to update an invalid account Id; and getting error	<pre> 4 Update an Account for a given Account id... Enter the Account ID: 1212 What is the name of the Account Holder? Test What is the Account Type? Test What is the Account Balance? 12.12 Is the Account Active? y Can't Update, no Account found <-----Bank Of Bengaluru: Banking Application using Tree Map-----> </pre>
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5. Deleting an account

#1	Trying to delete an invalid account	<pre> Delete an Account for given Account ID... Enter the Account ID to be deleted: 12 Can't Delete, No Account found </pre>
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#2	Valid account deletion, and confirmation; Viewing the account to ensure it is gone	<pre> Delete an Account for given Account ID... Enter the Account ID to be deleted: 3 Account Deleted <-----Bank Of Bengaluru: Banking Application using Tree Map-----> Actions: 1. Create Accounts 2. List all Accounts 3. View an Account 4. Update an Account 5. Delete an Account 6. Print Statistics 7. Import 8. Export 9. Exit 2 Fetching Accounts... Account{id=1, name='Poornima C', type='Student', balance=12.1, active=true} Account{id=2, name='Sami Raju', type='Loan', balance=129992.1, active=true} Account{id=4, name='Sami Sami', type='Student', balance=121.1, active=false} Account{id=5, name='Padmini C', type='Senior Citizen', balance=12.32, active=true} <-----Bank Of Bengaluru: Banking Application using Tree Map-----> </pre>	
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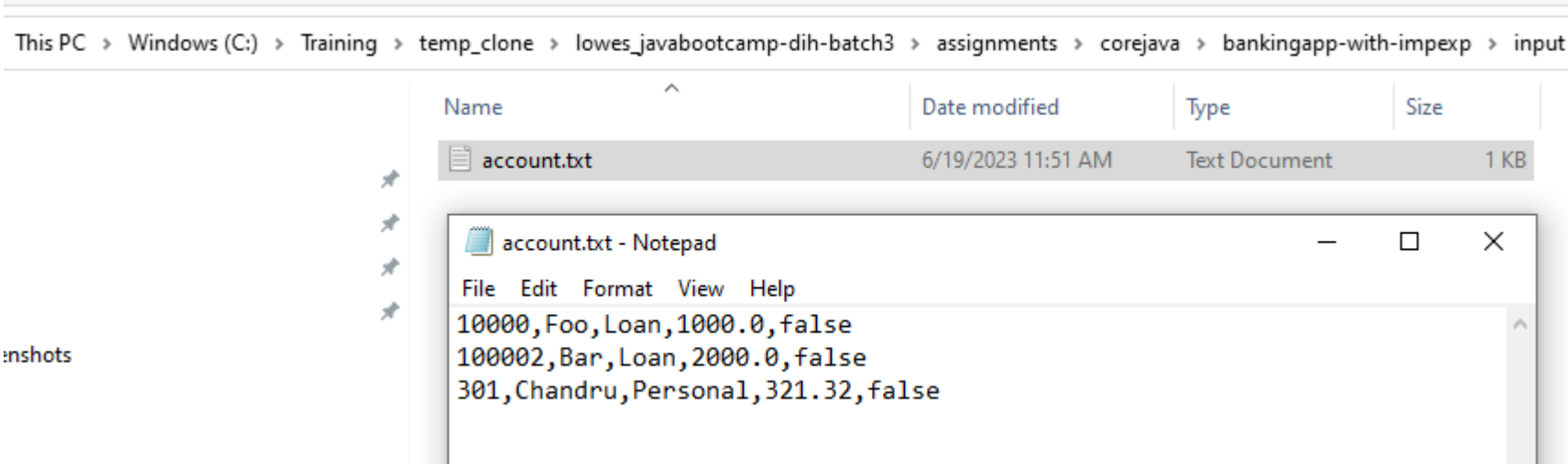
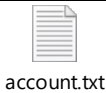
6. Printing the statistics

#1	Printing the data statistics	<pre>0 ***** Printing the Statistics ***** No of accounts with Balance over 1 lac is: 1 ----- ***Number of accounts by the Account Type*** Account Type: Loan; Count: 1 Account Type: Senior Citizen; Count: 1 Account Type: Student; Count: 2 ----- ***Number of accounts by the Account Type: Sorted*** Account Type: Loan; Count: 1 Account Type: Senior Citizen; Count: 1 Account Type: Student; Count: 2 ----- ***Average Balance by the Account Type: Average Balance for Loan is: 129992.1 Average Balance for Senior Citizen is: 12.32 Average Balance for Student is: 66.6 ----- ***Account Ids containing the name: Kumar No accounts found containing the name Kumar <-----Bank Of Bengaluru: Banking Application using Tree Map-----></pre>
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7. Import

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# 1	Snapshot of existing data	<pre> Fetching Accounts... Account{id=1, name='Sami', type='Savings', balance=12.12, active=true} Account{id=2, name='Poorni Chandru', type='Loan', balance=12.3, active=true} <-----Bank Of Bengaluru: Banking Application using Tree Map-----> </pre>
# 2	Snapshot of the file	<p>This PC > Windows (C:) > Training > temp_clone > lowes_javabootcamp-dih-batch3 > assignments > corejava > bankingapp-with-impexp > input</p> 
# 3	Actual file I used	
# 4	File path is relative	<pre> public void ImportData() throws FileNotFoundException { Scanner in = new Scanner(new File(pathname: "./input/account.txt")); } </pre>

# 5	Showing all account	<pre>7 Account data imported Successfully <-----Bank Of Bengaluru: Banking Application using Tree Map-----> Actions: 1. Create Accounts 2. List all Accounts 3. View an Account 4. Update an Account 5. Delete an Account 6. Print Statistics 7. Import 8. Export 9. Exit Fetching Accounts... Account{id=1, name='Sami', type='Savings', balance=12.12, active=true} Account{id=2, name='Poorni Chandru', type='Loan', balance=12.3, active=true} Account{id=301, name='Chandru', type='Personal', balance=321.32, active=false} Account{id=10000, name='Foo', type='Loan', balance=1000.0, active=false} Account{id=100002, name='Bar', type='Loan', balance=2000.0, active=false} <-----Bank Of Bengaluru: Banking Application using Tree Map-----></pre>
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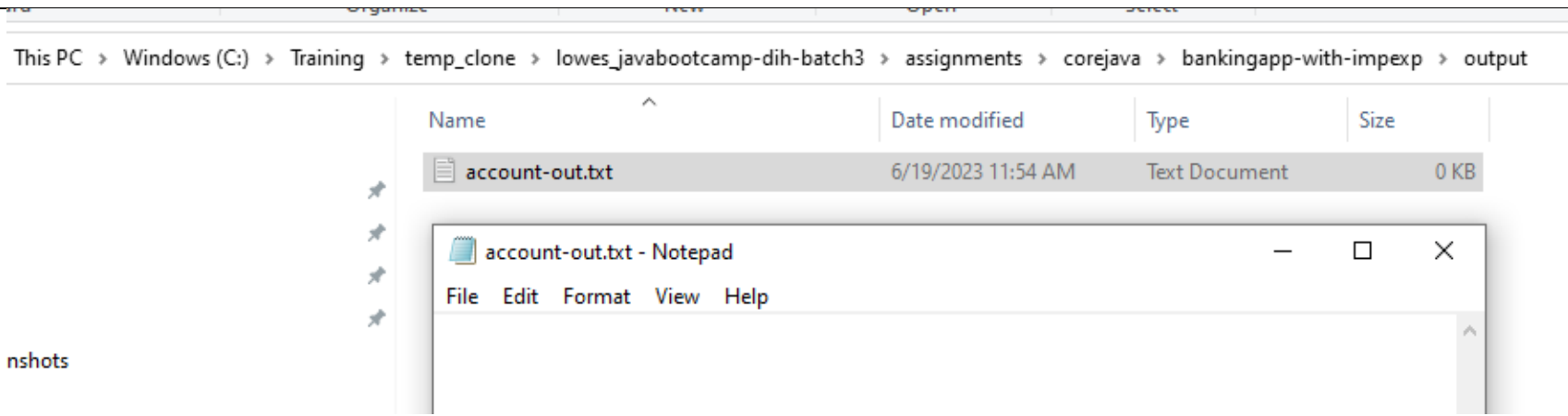
# 6	Finding the account Id	<pre>View details of the given Account id... Enter the Account ID: 301 Account Id: 301 Account Name: Chandru Account Type: Personal Account Balance: 321.32 Is the account active? false <-----Bank Of Bengaluru: Banking Application using Tree Map-----></pre>	
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# 7	Printing the statistics	<pre>0 ***** Printing the Statistics ***** No of accounts with Balance over 1 lac is: 0 ----- ***Number of accounts by the Account Type*** Account Type: Loan; Count: 3 Account Type: Personal; Count: 1 Account Type: Savings; Count: 1 ----- ***Number of accounts by the Account Type: Sorted*** Account Type: Loan; Count: 3 Account Type: Personal; Count: 1 Account Type: Savings; Count: 1 ----- ***Average Balance by the Account Type: Average Balance for Loan is: 1004.1 Average Balance for Personal is: 321.32 Average Balance for Savings is: 12.12 ----- ***Account Ids containing the name: Kumar No accounts found containing the name Kumar <-----Bank Of Bengaluru: Banking Application using Tree Map-----></pre>
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8. Export

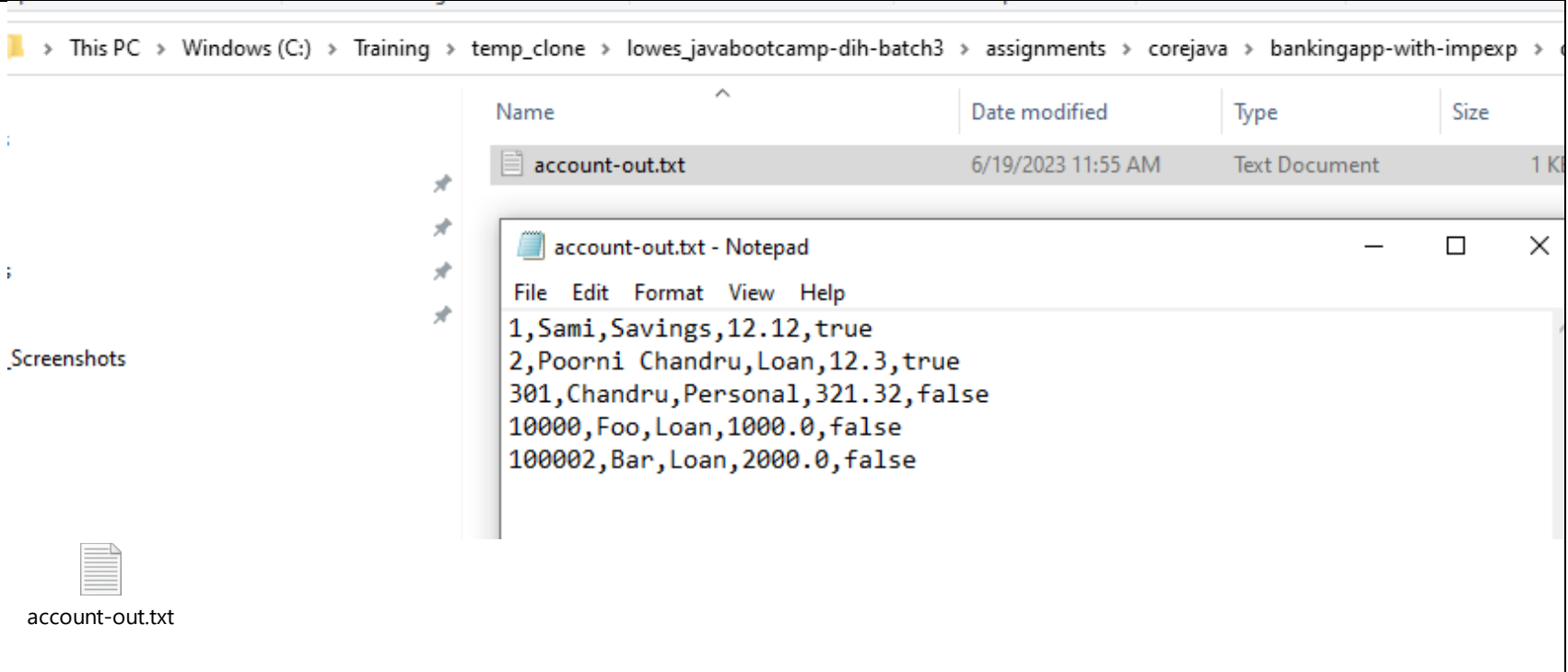
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# 1	Screenshot of the complete data	<pre>2 Fetching Accounts... Account{id=1, name='Sami', type='Savings', balance=12.12, active=true} Account{id=2, name='Poorni Chandru', type='Loan', balance=12.3, active=true} Account{id=301, name='Chandru', type='Personal', balance=321.32, active=false} Account{id=10000, name='Foo', type='Loan', balance=1000.0, active=false} Account{id=100002, name='Bar', type='Loan', balance=2000.0, active=false} <-----Bank Of Bengaluru: Banking Application using Tree Map-----></pre>
# 2	The empty file before export	
# 3	Export's relative path	<pre>@Override public void ExportData() throws IOException { FileWriter out = new FileWriter(fileName: "./output/account-out.txt");</pre>

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# 4	Exported file	
# 5	Message confirmation	<pre> 3 The data has been exported! <-----Bank Of Bengaluru: Banking Application using Tree Map-----> </pre>

9. Exiting from the application

#1	Entering proper index to exit the application. Thank you, message appears!	<pre> 6 Thank you for visiting Bank Of Bengaluru. Have a nice day! </pre>
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