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. Exit</pre>

#2	Entering the number accounts	<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. Exit
		1
		
		How many accounts you would like to create?
		5</pre>

| #3 | Entering account details | ```
Creating Accounts...
The Account ID for the new account is: 1
What is the name of the Account Holder?
Poornima Chandraksearan
What is the Account Type?
Student
What is the Account Balance?
8910012.12
Is the Account Active?
yes
The Account ID for the new account is: 2
What is the name of the Account Holder?
Sami Raju
What is the Account Type?
Salary
What is the Account Balance?
112.312
Is the Account Active?
true
The Account ID for the new account is: 3
What is the name of the Account Holder?
Abhay Kumar Pandey
What is the Account Type?
Loan
What is the Account Balance?
123123.12
Is the Account Active?
y
The Account ID for the new account is: 4
What is the name of the Account Holder?
Kumar Suresh
What is the Account Type?
Checking
What is the Account Balance?
9912991.
Is the Account Active?
n
``` |  |

| | | ```
The Account ID for the new account is: 5
What is the name of the Account Holder?
Sathish Kumar
What is the Account Type?
Checking
What is the Account Balance?
9910.23
Is the Account Active?
true
``` | |
| #4 | Account creation confirmation, and main menu | ```
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. Exit
``` | |
| #5 | Error handled while trying to enter characters for Account Id | N/A | |

| #6 | Error handled while trying to enter characters for Balance | ```
What is the Account Balance?
Rupees
Invalid input, please enter only numbers; This field is decimal friendly.!
What is the Account Balance?
``` |
|---|---|---|
| #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 | ```
Fetching Accounts...
Account{id=1, name='Poornima Chandraksearan', type='Student', balance=8910012.12, active=true}
Account{id=2, name='Sami Raju', type='Salary', balance=112.312, active=true}
Account{id=3, name='Abhay Kumar Pandey', type='Loan', balance=123123.12, active=true}
Account{id=4, name='Kumar Suresh', type='Checking', balance=9912991.0, active=false}
Account{id=5, name='Sathish Kumar', type='Checking', balance=9910.23, active=true}
Account{id=6, name='Test', type='Loan', balance=12.12, active=true}
<----------Bank Of Bengaluru: Banking Application using Tree Map--------->
``` |
|---|---|---|

3. Viewing an account

| #1 | Entering the proper Account ID | ```
View details of the given Account id...
Enter the Account ID:
1
Account{id=1, name='Poornima Chandraksearan', type='Student', balance=8910012.12, active=true}
``` |
|---|---|---|
| #2 | Entering incorrect Account ID | ```
3
View details of the given Account id...
Enter the Account ID:
11
Account not found!
<----------Bank Of Bengaluru: Banking Application using Tree Map--------->
``` |

4. **Updating an account**

| #1 | Updating on a valid account Id | ```
Update an Account for a given Account id...
Enter the Account ID:
3
What is the name of the Account Holder?
Test UPdated
What is the Account Type?
Student
What is the Account Balance?
1231312.1
Is the Account Active?
true
Account{id=3, name='Test UPdated', type='Student', balance=1231312.1, active=true}
Account Updated
``` |
|----|----|----|
| #2 | Viewing all the accounts (including the updated one) | ```
Fetching Accounts...
Account{id=1, name='Poornima Chandraksearan', type='Student', balance=8910012.12, active=true}
Account{id=2, name='Sami Raju', type='Salary', balance=112.312, active=true}
Account{id=3, name='Test UPdated', type='Student', balance=1231312.1, active=true}
Account{id=4, name='Kumar Suresh', type='Checking', balance=9912991.0, active=false}
Account{id=5, name='Sathish Kumar', type='Checking', balance=9910.23, active=true}
Account{id=6, name='Test', type='Loan', balance=12.12, active=true}
<----------Bank Of Bengaluru: Banking Application using Tree Map--------->
``` |

#3	Trying to update an invalid account Id; and getting error	<pre>Update an Account for a given Account id...
		Enter the Account ID:
		111
		What is the name of the Account Holder?
		Test
		What is the Account Type?
		Test
		What is the Account Balance?
		12.1
		Is the Account Active?
		false
		Can't Update, no Account found
		<----------Bank Of Bengaluru: Banking Application using Tree Map---------></pre>

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:
		122
		Can't Delete, No Account found</pre>

| #2 | Valid account deletion, and confirmation; Viewing the account to ensure it is gone | ```
Delete an Account for given Account ID...
Enter the Account ID to be deleted:
4
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. Exit
2

Fetching Accounts...
Account{id=1, name='Poornima Chandraksearan', type='Student', balance=8910012.12, active=true}
Account{id=2, name='Sami Raju', type='Salary', balance=112.312, active=true}
Account{id=3, name='Test UPdated', type='Student', balance=1231312.1, active=true}
Account{id=5, name='Sathish Kumar', type='Checking', balance=9910.23, active=true}
Account{id=6, name='Test', type='Loan', balance=12.12, active=true}
<----------Bank Of Bengaluru: Banking Application using Tree Map--------->
``` |
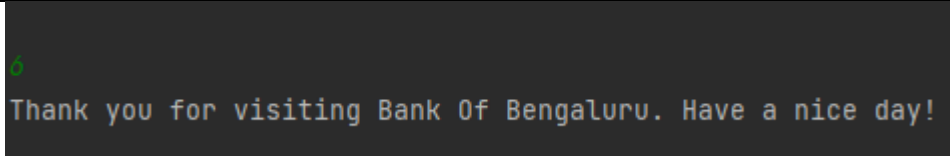
6. **Printing the statistics**

#1	Printing the data statistics	
		***** Printing the Statistics ***** No of accounts with Balance over 1 lac is: 2 ***Number of accounts by the Account Type*** Account Type: Checking; Count: 1 Account Type: Loan; Count: 1 Account Type: Salary; Count: 1 Account Type: Student; Count: 2 ***Number of accounts by the Account Type: Sorted*** Account Type: Checking; Count: 1 Account Type: Loan; Count: 1 Account Type: Salary; Count: 1 Account Type: Student; Count: 2 ***Average Balance by the Account Type: Average Balance for Checking is: 9910.23 Average Balance for Loan is: 12.12 Average Balance for Salary is: 112.312 Average Balance for Student is: 5070662.109999999 ***Account Ids containing the name: Kumar The Account ID is 5 for the name: Sathish Kumar Thank you for visiting Bank Of Bengaluru. Have a nice day! <----------Bank Of Bengaluru: Banking Application using Tree Map--------->	

7. **Exiting from the application**

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

8. **Trying to enter something other than the main menu option**

#1	Other than the main menu option. This will keep showing the main menu. No other action will be taken	```
		Actions:
		1. Create Accounts
		2. List all Accounts
		3. View an Account
		4. Update an Account
		5. Delete an Account
		6. Print Statistics
		7. Exit
		8
		<----------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. Exit
		9
		<----------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. Exit