**CST8130 – Data Structures Assignment 2 – Test Plan**

**Includes everything from Assignment 1 Test plan PLUS>>>>>**

Menu Processing

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| --- | --- | --- |
| *Condition Description* | *Sample* | *Result* |
| Display list of accounts | User enters l, or L | Proceeds to list account processing |
| Error condition | User enters anything else – b, 1, | Error message, return to menu input |

Account Processing

|  |  |  |
| --- | --- | --- |
| *Condition Description* | *Sample* | *Result* |
| Add first BankAccount | accountNumber 23 (savings) | Display list – and this is only entry |
| Add BankAccount – at beginning of list | accountNumber 12 (chequing) | Display list – and see  account 12 info  account 23 info |
| Add BankAccount – into middle of list | accountNumber 20 | Display list – and see  account 12 info  account 20 info  account 23 info |
| Add BankAccount – at end of list | accountNumber 30 | Display list – and see  account 12 info  account 20 info  account 23 info  account 30 info |
| Enter 1 more than initial size of ArrayList |  | Account should be added |

Display Processing

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| --- | --- | --- |
| *Condition Description* | *Sample* | *Result* |
| Enter account – valid entry – at beginning of list (see above) | User enters 12 | Account is found, and info is displayed |
| Enter account – valid entry – in middle of list (see above) | User enters 23 | Account is found, and info is displayed |
| Enter account – valid entry – at end of list (see above) | User enters 30 | Account is found, and info is displayed |
| Enter account – valid entry | User enters 1234 | Account is not found, error message is displayed, return to menu |
| Enter account – invalid entry | User enters -1111, ABC, 1234567890 | Account is not found, error message is displayed, return to menu |

Monthly Update Processing

|  |  |  |
| --- | --- | --- |
| *Condition Description* | *Sample* | *Result* |
| Ensure still works for each BankAccount in list |  | Display List and account balances should be updated for each account |

File Processing

|  |  |  |
| --- | --- | --- |
| *Condition Description* | *Sample* | *Result* |
| Add account in middle of list (after entries above) | accountNumber 25 | Display list – and see  account 12 info  account 20 info  account 23 info  account 25 info  account 30 info |
| Add account in beginning of list (after entries above) | accountNumber 10 | Display list – and see  account 10 info  account 12 info  account 20 info  account 23 info  account 25 info  account 30 info |
| Add account at end of list (after entries above) | accountNumber 40 | Display list – and see  account 10 info  account 12 info  account 20 info  account 23 info  account 25 info  account 30 info  account 40 info |