National qualification title: Diploma of Information Technology (C5402)

National Qualification code: ICT50220

National unit title: Apply introductory object-orientation language skills (COSC7391C)

National Unit Code: ICTPRG430

**Task 3\_Appendix 1 - User\_Requirements\_PRODUCT\_ASSESSMENT**

Algorithm for **deposit()** function in **CAccount** class

1. Start
2. Store deposit amount **(input)**
3. If the deposit amount is less than the minimum amount
   1. Display account number **(output)**
   2. Display deposit amount **(output)**
   3. Display minimum amount **(output)**
   4. Display error message **(output)**
   5. Go to step 5
4. Else
   1. Add the deposit amount to the balance **(input)**
   2. Display account number **(output)**
   3. Display deposit amount **(output)**
   4. Display the closing balance **(output)**
   5. Display successful deposit transaction message **(output)**
   6. Go to step 5
5. End

Algorithm for **deposit()** function in **SAccount** class

1. Start
2. Store deposit amount **(input)**
3. If the deposit amount is greater than the maximum amount
   1. Display account number **(output)**
   2. Display deposit amount **(output)**
   3. Display maximum amount **(output)**
   4. Display error message **(output)**
   5. Go to step 5
4. Else
   1. Add the deposit amount to the balance **(input)**
   2. Display account number **(output)**
   3. Display deposit amount **(output)**
   4. Display the closing balance **(output)**
   5. Display successful deposit transaction message **(output)**
   6. Go to step 5
5. End

Display the following for the **CAccount** class using the  **str ()** function with headings:

* Account Number
* Account Type
* Balance
* Minimum Amount
* Branch Number

It is up to you how the String formatting is done for the **str()** function for the **CAccount** class e.g newline and/or tab spacing.

Display the following for the **SAccount** class using the  **str ()** function with headings:

* Account Number
* Account Type
* Balance
* Maximum Amount
* Branch Number

It is up to you how the String formatting is done for the **str()** function in for **SAccount** class e.g newline and/or tab spacing.

Display the following for **Customer** class using the  **str ()** function with headings:

* Customer Number
* Customer Name
* Age
* City

It is up to you how the String formatting is done for the **str()** function in for **Customer** class e.g newline and/or tab spacing.

Use getter functions to display the following details for the selected **CAccount** object before performing the deposit transaction:

* Account Number
* Account Type
* Balance
* Minimum Amount

Use getter functions to display the following details for the selected **SAccount** object before performing the deposit transaction:

* Account Number
* Account Type
* Balance
* Maximum Amount

Perform an invalid deposit transaction on the selected **CAccount** object by specifying a deposit amount less than the minimum amount (value of minAmt variable)

Perform an invalid deposit transaction on the selected **SAccount** object by specifying a deposit amount greater than the maximum amount (value of maxAmt variable)

Perform valid deposit transaction on the selected **CAccount** object by specifying a deposit amount equal to or greater than the minimum amount (value of minAmt variable)

Perform valid deposit transaction on the selected **SAccount** object by specifying a deposit amount equal to or less than the maximum amount (value of maxAmt variable)

Insert the following details into the **BankingReceipt.txt** file for the selected **CAccount** object after performing the valid deposit transaction:

* Account Number
* Account Type
* Balance

Insert the following details into the **BankingReceipt.txt** file for the selected **SAccount** object after performing the valid deposit transaction:

* Account Number
* Account Type
* Balance