**Unit 1 Chapter 1 Worksheet: Algorithm Workbench Exercises 1, 2, and 3**

Daniel J. Litten II

Southwestern College – Professional Studies

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Mr. Russell Schoech

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**1. Available Credit**

*Display “What is the maximum amount of credit?”*

*Input maximum credit amount*

*Display “What is the amount of credit used?”*

*Input credit amount used*

*Store the value of a maximum credit amount subtracted by credit amount used in the available credit variable*

*Display the value in the available credit variable*

**2. Sales Tax**

*Display “What is the retail price of the item being purchased?”*

*Input retail price*

*Display “What is the sales tax rate?”*

*Input sales tax rate*

*Store the value of retail price times sales tax rate in the tax variable*

*Display the value in the tax variable*

*Store the value of retail price plus tax variable in the total variable*

*Display the value in the total variable*

**3. Account Balance**

*Display “What is the account starting balance?”*

*Input starting balance*

*Display “What is the total dollar amount of deposits made?”*

*Input deposits*

*Display “What is the total dollar amount of withdrawals made?*

*Input withdrawals*

*Display “What is the monthly interest rate?”*

*Input interest rate*

*Store the value of starting balance plus deposits minus withdrawals in the sub balance variable*

*Store the value of sub balance variable times interest rate in the interest gained variable*

*Store the value of sub balance plus interest gained in the current balance variable*

*Display the value in the current balance variable*