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| **Application/ Program name:** | **Exercise L1-2 Chapter 02** |
| **Written by:** | David De Alva |

| **Purpose or problem definition:** |
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| program that reads the original price of the items sold, the percentage of the marked-up price, and the sales tax rate. The program outputs the original price of the item, the percentage of the markup, the stores selling price of the item, the sales tax rate, the sales tax, and the final price of the item. |

| **Program Procedures:** |
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| User input original Price  User input MrkUp percentage  User input Tax rate  MrkUp is divided by 100 to make it usable  tax rate is divided by 100 to make it usable  Sales Price is made by multiplying Original Price and Mark Up and adding it to Original Price  Sales tax is made by multiplying Sales Price by tax rate  Final Price is made by adding SaleTax and Sale Price  MrkUp is multiplied by 100 to make it presentable  Tax rate is multiplied by 100 to make it presentable  All information is outputted : OrigPrice, MrkUp, SalePrc, TaxRate,  SalesTax and FinalPrice |

| **Algorithm/Processing/Conditions:** |
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| **Inputs:** |
| OrigPrice, MrkUp, TaxRate |
| **Processes:** |
| Sales Price is made by multiplying Original Price and Mark Up and adding it to Original Price  Sales tax is made by multiplying Sales Price by tax rate  Final Price is made by adding SaleTax and Sale Price |
| **Outputs:** |
| OrigPrice, MrkUp, SalePrc, TaxRate,  SalesTax and FinalPrice |

| **Notes & Restriction:** |
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| It was an interesting program to write, a lot of fun. With some modification I could see this snippet of code become very useful in a program |

| **Comments:** |
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| I’m not totally confident yet with the decimal number restriction so I didn’t write it in. This numbers can have infinite decimals, I am not sure if it would affect the accuracy of the numbers |