**Problem:**

An Online Discount Bookstore has set prices for different type of books, shipping, tax and discounts. They are trying to set up their online shopping website.

|  |  |
| --- | --- |
| Hardback Adult Book | 5.99 |
| Paperback Adult Book | 3.99 |
| YA Hardback Book | 4.99 |
| YA Paperback | 2.99 |
| Manga | 5.99 |
| Shipping | 5.99 |
| WA Tax | 8.6 % |
| Discount | 25% |

Shipping is free when a user’s subtotal is > $50

Discount is applied to subtotal when Amount of total books is > 15

When totaling the final total for the user the read text should inform the user of

-total amount of books

-final total

**Pseudocode:**

Set all book prices as constant values as only amount of books changes

Receive user input for number of books of each section – original value is zero in design view

Function to set up to calculate subtotal for all books

Function to see how many books are bought

Function to remove shipping charge from final total if subtotal is >50

Function to apply discount if # of books is over 15

Function to determine tax for order

Function to add shipping-if applicable, subtract discount- if applicable, and tax to show final total for order

Write and read file for #of books, subtotal, shipping, discount,

Clear and Exit Buttons

**Picture of the Form:**

txtManga

lblTitle

txtPaperYA

txtHardAdult

txtPaperAdult

btnFinalTotal

btnClear

btnExit

txtHardYA

**Graphical user interface, application, Word

Description automatically generated**

btnWrite

lblManga

lblPaperYA

lblHardYA

lblPaperAdult

lblHardAdult

txtRead

txtDiscount

lblDiscount

txtTax

lblTax

txtFinalTotal

lblFinalTotal

btnRead

lblShipping

txtShipping

lblSubtotal

txtSubtotal

**Three TestCases**

If 0 for all values then OrderTotal, subtotal, shipping, discount, tax should all be 0

If 1 entered for all values then Subtotal must be 23.95

Shipping must be 5.99

Discount must be 5.99

Tax must be 2.06

Order Total must be 26.01

If Only buying 4 Hardback Adult, 4 Paperback Adult and 2 Manga then Subtotal must be 59.88

Shipping is 0

Discount is 14.97

Tax is 5.15

Order Total is 50.06