Comp 1501 Assignment 1

Part 1: Cost and Tax

1. Read payment$
2. Read change$
3. Read taxRate
4. Set totalcost = payment$ - change$
5. Set actualcost = totalcost / (1 + taxRate)
6. Set tax = totalcost \* taxRate
7. Write actualcost
8. Write tax
9. Write totalcost

This program was designed for an individual who paid for a good or service with cash but did not get a receipt. This individual wants to know how much the actual good/service was, how much was taken as tax, and the sum of the tax and price for the good/service.

Input:

* the amount you paid the cashier = payment$
* the amount you received = change$
* the percentage you are taxed (provincial) =taxRate

Output:

* the original price of the product = actualcost
* the tax you pay for the product = tax
* the sum of the cost of the product and the tax = totalcost

Part 2: RectangleZilla

1. Read bigX (larger x-value This example was 9)
2. Read smallY (smaller y-value This example was 5)
3. Read smallX (smaller x-value This example was 5)
4. Read bigY (larger y-value This example was 7)
5. Set length = bigX – smallX
6. Set width = bigY – smallY
7. Set perimeter = 2 \* (length + width)
8. Set area = length \* width
9. Write length
10. Write width
11. Write perimeter
12. Write area