

**Computing final cost of a new vehicle.**

As usual, work on praktikum.ee.itb.ac.id server.

This week you will write a program to compute the final cost of a new vehicle. Some customizing options and the financing packages will taken into account. Also, there is a \$1000 discount available for graduating seniors. This exercise will provide you with some experience with the `switch/case/break` commands.

There are a number of items which the user will enter. Enter them in the following order:

- Ask the user for the base price of the vehicle; read this into a floating-point variable (double)
- Present the user with the following menu:  
Select one of the following packages:  
(A) Towing package (\$1200)  
(B) Off-road package (\$1000)  
(C) Not applicable (no charge)  
Read their menu choice into a character variable and compute the appropriate option package charge. Be sure to handle both upper- and lower-case responses. Use a `switch/case/break` structure to make the decision.
- Next, present the user with the menu:  
Choose a sound system:  
(A) 500w CD/tape player (\$500)  
(B) 200w CD only (\$250)  
(C) Base model (no charge)  
Read their menu choice into a character variable and compute the appropriate sound-system charge. Be sure to handle both upper- and lower-case responses. Use a `switch/case/break` structure to make the decision.
- The dealer offers graduating seniors a \$1000 discount on their cars. Ask the user if they qualify for this rebate.  
If you are graduating senior, you are eligible for a \$1000 discount from. Enter a 'Y' or 'y' for graduating senior status and an 'N' or 'n' for non-graduating senior.  
Use an `if` statement to read this answer and store the response into a character variable. If the user is not a graduating senior, then they do not get a discount.
- The last question refers to their financing choice. Present the following menu to the user:  
Choose your financing terms:  
(A) 5% of subtotal for each of 5 years  
(B) 4.5% of subtotal for each of 4 years  
(C) Paying in cash (no financing costs)  
Use a `switch/case/break` to determine which choice the user selects. Be sure to handle upper- and lower-case responses. The `subtotal` quantity is the sum of the base price and the cost of the two options minus the graduating senior discount (if applicable).

Format the output so that it appears:

Base Cost:	\$10000.00
Options Packages:	\$ 1200.00
Graduating Senior Credit:	\$ 1000.00

Subtotals:	\$10200.00
Financial Charges:	\$ 2550.00
Final Cost:	\$12750.00

Because of the adjacent character responses in your input, you will have to declare a variable to store the enter key character.

Test your code with a variety of options and discounts. When you are convinced your code runs right, demonstrate it to the lab instructor, then submit it using usual perl script.