

Exercises with Selection – Unit 2.3

There exercises focus on some simple Selection

- if ... elif ... else
 - basic Boolean operators (>, == ...)
 - and / or
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i. In Ontario we have two forms of sales tax PST & GST on fast food. GST is 6% and always charged on fast food, PST is 8% but only charged when the price of the meal is \$4.00 or over. Create a program that gets the base price of a meal and outputs the total after tax. **Save as selectionEx1.py**

ii. Write a program that reads in a file name from the user and tells them what kind of file it is by looking at the extension. Your program must be able to recognize at least 5 different file types.
e.g. "Dogs.doc" is a Word Document **Save as selectionEx2.py**

3. The postage you pay to send a letter from Canada depends on where you are sending it. For a standard sized letter the postage rates are:

Mailing within Canada	\$0.52
Mailing to USA	\$0.93
Mailing Internationally	\$1.55

Create a program that asks the user where he/she is mailing their letter then tell him/her how much the postage is. **Save as selectionEx3.py**

4. When building an enclosure for a python the amount of area at the base of the enclosure should be proportionate to the length of the snake. The minimum needed is 1/2 square foot for each foot in length up to and including 6 and 3/4 square foot for each foot after that.

e.g. 9' python needs 5.25 square feet ($6 * \frac{1}{2} + 3 * \frac{3}{4}$)

Create a program that asks the user how long their python is and tell them the minimum area they need for the base of its enclosure. **Save as selectionEx4.py**