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| **Computer Science 1** | **Lab 07A**  **1-Day Minor Python Assignment** |
| **The Speeding Ticket Program** | **100 Point Version Only** |
| **Assignment Purpose:**  The purpose of this program is to demonstrate knowledge of Keyboard Input and One-Way Selection control structures in a practical program. | |

Write a program which will enter information relating to a speeding violation and then compute the amount of the speeding ticket. The program will need to enter the posted speed limit, actual speed the car was going, and whether or not the car was in a school zone.

The way speeding tickets are computed differs from city to city.

For this assignment, we will use these rules, which need to be applied in this order:

1. All tickets will start with a minimum amount of **$75**.
2. An additional **$6** is charged for every mph over the posted speed limit.
3. If you are traveling over **30mph** over the posted speed limit, an additional **$160** is charged.
4. If the speeding occurred in a school zone, the cost of the ticket is **doubled**.

This program is not concerned with checking for proper input. For example, if the posted speed limit is 55mph, and you were traveling 50mph, then a ticket would not be necessary in the first place. For this program, you can assume that the data will be entered correctly.

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| **Lab 07A Student Version** | **Do not copy this file, which is provided.** |
| **1 # Lab07Ast.pv  2 # "The Speeding Ticket Program"  3 # This is the student, starting version of Lab 07A.  4   5   6 print()  7 print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")  8 print("Lab 07A, The Speeding Ticket Program")  9 print("100 Point Version") 10 print("By: JOHN SMITH") # Substitute your own name here. 11 print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*") 12 print("\n") 13** | |

**100-Point Version Output**

The 100-Point version will require 3 separate executions with 3 different outputs.

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|  ----jGRASP exec: python Lab07Av100.py  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Lab 07A, The Speeding Ticket Program 100 Point Version By: JOHN SMITH \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   What is the posted speed limit? --> 40  How fast was the car travelling in mph? --> 55  Did the violation occur in a school zone? {Y/N} --> N  Ticket amount: $ 165   ----jGRASP: operation complete.   ----jGRASP exec: python Lab07Av100.py  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Lab 07A, The Speeding Ticket Program 100 Point Version By: JOHN SMITH \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   What is the posted speed limit? --> 55  How fast was the car travelling in mph? --> 90  Did the violation occur in a school zone? {Y/N} --> N  Ticket amount: $ 445   ----jGRASP: operation complete.   ----jGRASP exec: python Lab07Av100.py  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Lab 07A, The Speeding Ticket Program 100 Point Version By: JOHN SMITH \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   What is the posted speed limit? --> 20  How fast was the car travelling in mph? --> 75  Did the violation occur in a school zone? {Y/N} --> Y  Ticket amount: $ 1130   ----jGRASP: operation complete.  You must enter a capital **Y** for this to work.  A lowercase **y** will not give the correct output. |