

# PRG155 – Programming Fundamentals Using C

## Lab Test 1 - C

Student Name		Section	
Student ID		Date	

Write a working C program to calculate fines for speeding. The program will do the following:

- User is first prompted to enter a positive number representing a vehicle speed. Use the variable `speed` to store entered data.
- Program will then determine the fine based on the following:

Fine is: **\$0** -> If speed is between 0 and 90km/h.

Fine is: **\$75 + \$3.95 x (speed - 90)** -> If speed is between 90 and 120km/h.

Fine is: **\$105 + \$7.55 x (speed - 120)** -> If speed is above 120km/h.

- If speeding fine is equal to zero (0), the following message will be displayed on the screen:

`Nothing to pay!`

- If the speeding fine is not zero (0), the following message is displayed on the screen:

`The speeding fine for speed (enter speed) is (enter fine)`

For example, if the user types in 110, the output should be:

`Speeding fine for speed 110 km/h is $154.00`

- Include your name, lab test number, and section as comments in the first lines of your program.

If you cannot do everything, do as much as possible. Part marks will be assigned for incomplete programs (see marking scheme below). Keep saving your program. Do your own work!

When you have finished, save your program as **lastname\_firstname\_LT1C.c**. Submit the program electronically on Blackboard.

Correct program structure	4		Correct use of printf	5	
Correct use of variables	2		Correct use of operators	6	
Correct use of scanf	5		Correct use of if-else statement	8	
			<b>Total:</b>	<b>30</b>	