CPE 100 August 2020 – International Sections
Introduction to Computer Programming
Laboratory Exercise 2

Objective

This lab is intended to give you practice using conditional constructions.

Instructions

1. Write a program called ***movieticket.c*** that calculates the price of a movie ticket. There are twenty five rows of seats in the theater. The ticket price varies according to the row number of the customer's seat.

- Row 1 to Row 5 - 100 baht
- Row 6 to Row 15 - 150 baht
- Row 16 to Row 25 - 200 baht.

Your program should ask for the row number and then print the ticket price according to the rules above. Use ***if...else*** for this version of the program.

2. Test your program with all of the following values. Fix any problems that you find.

Row Number	Expected Ticket Price
1	100
5	100
3	100
6	150
15	150
9	150
16	200
25	200
24	200
30	Give an error message
0	Give an error message

Instead of using multiple print statements, your program should *declare a variable* to hold the ticket price. Set that variable to the correct value depending on the row. Then print the value at the end of the program (or an error message if the user enters an illegal row).

3. When you are satisfied that your program is working, copy it to a new file called ***movieticket2.c***. Now change the program to use a ***switch*** statement. Remember that you can "stack" multiple case values and do the same action for all of them, as shown in the demo program ***calories.c***.

Test ***movieticket2*** with the values in the table above. You should get exactly the same results.

4. Remember to follow the coding standards for both these programs! If your program does not have a header comment or does not correctly indent the conditional blocks, you will lose 20% of the lab grade!

5. Upload ***movieticket.c*** and ***movieticket2.c***. You *do not* need to upload the executable files.