

Note :

1. Solve any 8 questions
2. Each program carries 10 marks
3. Label all your program files in this manner: question1.c, question5.c, etc
4. Make a special folder called "ICS3U-Assignment-LASTNAME" and store your files in there.
5. Due end of Wednesday's class, March 11th, 2015

1. Write a program:

- a) to check whether an entered number is odd / even.
- b) to calculate sum of three numbers.

2. Accept principal amount, rate of interest, and duration from the user.

Display Interest Amount and Total Amount (Principal + Interest).

3. Accept the salary of an employee from the user. Calculate the net salary on the following basis (must account for income tax, how much will they get after taxes deducted? And how much for each tax)

Salary	Federal Tax	Provincial Tax
1 - 10000	10%	0%
10001 - 25000	15%	10%
25001 - 40000	20%	20%
40001 - 80000	25%	25%
80001+	30%	30%

4. Accept any integer from the user. Display whether the number is divisible by 100 or not.

5. Accept a month in digit from the user. Display the month in words. If number is not between 1 and 12, display message "Invalid Month". (Use 'switch')

6. Display all prime numbers between 50 and 150.

7. Write a program to print the following patterns:

a)	1	b)	1
	1 2		2 2
	1 2		3 3 3 3
	1 2 3		4 4 4 4 4
	1 2 3 4		5 5 5 5 5 5

8. Write a program to swap the values of two numbers. Do this using pass by reference method in a function.

9. Write a program to accept 10 values in an integer array. Display the number of odd, even, and negative numbers.

10. Accept any two strings from the user. Display whether both the strings are equal or not. (do not use standard functions, must check this yourself!)

11. Create a structure to store the employee number, name, department and basic salary. Create an array of structures to accept and display the values of 10 employees.

Marking Guide:

- 6 marks for logic
- 2 marks for appropriate syntax and basic structure
- 1 mark for attention to user interface
- 1 mark for appropriate commenting

Note: Extra marks will be given for early submission, creative solutions, combining questions into a single menu-driven program, or other examples of extra (relevant) work.