Practical Test Sample Paper– Programming Concept
Duration: 2 Hours

Folder Number: ……………………   **Student Number: …………………………..**

Question 1
Income tax is calculated according to the following table.

1st 50000	no tax
2nd 50000	5%
3rd 50000	10%
4th 50000	20%
5th 50000	35%
More than 250000	55%

Tax deduction on income tax is calculated according to the following table.

No children	no deduction
1 child	5%
2 children	13%
3 or more children	25%

Write a function(s) to calculate the tax payable using above tables and prepare the following table (Your program should calculate and print second third fourth and fifth columns). You are not allowed to use any calculations and conditional statements in the **main** function

Income	tax without deduction	tax with deduction		
		1 child	2 children	3 children
25000				
50000				
75000				
100000				
125000				
150000				
175000				
200000				
225000				
250000				
275000				
300000				

Question 2
There can be minimum of 1 student or maximum of 40 students in a class. It is mandatory for all students to take 4 subjects every semester namely Mathematics, Science, History, and English. For the final exam, students can get marks between 0 and 100.

Write a program in C++ to accept number of students in the class, all students' names and final exam marks for each subject. Print the names of students, marks for each subject, and aggregate marks in ascending order of the aggregate marks of the final exam.