Sri Lanka Institute of Information Technology
B. Sc (Hons). Degree in IT
Year 1 – Semester 1 – 2020 – September Intake
Introduction To Programming (IT1010)
            Online 1
            Version E

                                                        Time : 1 hour

The following table provides the details of the different types of medical insurance schemes proposed by an Life insurance company

Insurance type	Description	Monthly premium per family	Monthly premium per individual
A	Arogya	5200.00	4500.00
N	Niduk	4300.00	3100.00
D	Digasiri	4800.00	3600.00
S	Suwawewa	3800.00	3300.00

Write a C program that prompt the user to input the insurance type, family or individual, number of children (if family) and display monthly instalment payable to the company.

Family unit consisting of Insured, spouse and 2 children only. For each additional child, 10% of the family premium will be charged.

Your program should display an error message "Invalid Insurance Type" and terminate, if the user input a wrong insurance type, which is not listed in the table given above.

After displaying the total amount that need to be paid by the client, the program should prompt a message "Do you want to continue". If the user inputs "y" or "Y" the program should ask the user to enter the details of the next item. If the user input "n" or "N" the program should terminate.

Format your output to 2 decimal places.

Save your program as *ITXXXXXX.c*

Sample output

```
Insurance Type : A
Family or Individual ( F- family and I – individual) : I
Total Amount : 4500.00

Insurance Type : N
Family or Individual ( F- family and I – individual) : F
Number of children : 3
Total Amount : 4730.00

Insurance Type : X
Invalid Insurance Type !
```