

Integrated Mobile Applications Development

JavaScript

The tax calculations are as follows:

- Tax on the first part of a person's salary, from €1 up to and including €33,800, is at 20% - Band 1.
- Tax on the second part of a person's salary, everything above €33,800, is at 40% - Band 2.
- The program should display the Gross Salary, Tax Due in Bands 1 & 2, Total Tax Due, Nett Salary, and whether your salary falls between the following bands:
 - Below 20,000
 - Between 20,000 and 29,999
 - Between 30,000 and 39,999
 - Between 40,000 and 69,999
 - Between 70,000 and 79,999
 - Over 80,000
- For example, if a person's salary is €27,850 he or she will not pay any tax in Band 2 because he or she does not earn over the threshold for Band 2 (€33,800).

He or she will pay 20% tax on the full €27,850 (N.B. not all the way up to the cut-off point of €33,800), which is €5,570.

The total tax from Band 1 (€5,570) and Band 2 (€0) are added to give the Total Tax Due of €5,570.

This is then subtracted from the gross salary (€27,850) to give the nett salary of €22,280.00.

The following is the expected and actual output for a range of salaries:

Expected Output	Actual Output
"Gross Salary: 27850" "Tax Due in Band 1: 5570" "Tax Due in Band 2: 0" "Total Tax Due: 5570" "Nett Salary: 22280.00" "Your nett salary is between 20,000 and 29,999"	"Gross Salary: 27850" "Tax Due in Band 1: 6760" "Tax Due in Band 2: -2380" "Total Tax Due: 4380" "Nett Salary: 23470" "Your nett salary is between 20,000 and 29,999"
"Gross Salary: 4000" "Tax Due in Band 1: 800" "Tax Due in Band 2: 0" "Total Tax Due: 800" "Nett Salary: 3200.00" "Your nett salary is less than 20,000"	"Gross Salary: 4000" "Tax Due in Band 1: 6760" "Tax Due in Band 2: -11920" "Total Tax Due: -5160" "Nett Salary: 9160" "Your nett salary is less than 20,000"
"Gross Salary: 80000" "Tax Due in Band 1: 6760" "Tax Due in Band 2: 18480" "Total Tax Due: 25240" "Nett Salary: 54760.00" "Your nett salary is between 40,000 and 69,999"	"Gross Salary: 80000" "Tax Due in Band 1: 6760" "Tax Due in Band 2: 18480" "Total Tax Due: 25240" "Nett Salary: 54760" "Your nett salary is between 20,000 and 29,999"
"Gross Salary: 210000" "Tax Due in Band 1: 6760" "Tax Due in Band 2: 70480" "Total Tax Due: 77240" "Nett Salary: 132760.00" "Your nett salary is greater than 80,000"	"Gross Salary: 210000" "Tax Due in Band 1: 6760" "Tax Due in Band 2: 70480" "Total Tax Due: 77240" "Nett Salary: 132760" "Your nett salary is between 20,000 and 29,999"

As can be seen from the Actual output above, there are bugs in the program which have to be detected and fixed.