

Developing Software: Introduction

(H173 34)

Walkthru exercise 2

“A pay rise of 9.7% has been awarded to a company's employees.

Write a program in C++ that will enable an employee to provide as input his/her previous annual salary and then determine their new annual, monthly, weekly and hourly rates of pay.

Assume exactly 52 weeks in a year and 35 hours per week”.

Suggested source code solution:

/\*

Author

Date

Description / purpose of code

Version

Saved as E:\walkthru\walk2.cpp

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#include <iostream.h>

#include <conio.h> // A C legacy - library of 'simple' I/O functions

//variables with global scope

float annual\_salary\_now,new\_annual,new\_monthly,new\_weekly,new\_hourly;

const float pay\_rise = 0.097;

void get\_existing\_salary()

{

cout << "Please enter your present salary" << endl;

cin >> annual\_salary\_now;

}

void calculate\_new\_salary()

{

new\_annual=annual\_salary\_now \* (1+pay\_rise);

new\_monthly=new\_annual/12;

new\_weekly=new\_annual/52;

new\_hourly=new\_annual/(52\*35);

}

void display\_results()

{

cout << endl << "Your new annual salary is £" << new\_annual << endl << endl;

cout.precision(2);

cout << "This equates to £" << new\_monthly << " per month" << endl;

cout << "Which equates to £" << new\_weekly << " per week" << endl;

cout << "Which equates to £" << new\_hourly << " per hour" << endl;

}

void main()

{

clrscr();

get\_existing\_salary();

calculate\_new\_salary();

display\_results();

getch();

}