CIS 1.5

Assignment 2

Write a complete C program, including comments, to do the following (a flowchart is optional):

Read in groups of data about employees of a company. Each group of data will contain an employee's id number, hours worked, rate of pay, and age (the age will be an integer). A typical group of data will be:

643456 46.9 3.26 51

(This means that Employee 643456 worked 46.9 hours at 3.26 per hour and he is 51 years old.)

Print the original data as it is read in, together with appropriate messages (e.g., the employee id is ..., the rate of pay is ..., etc.).

For each employee, compute the employee's base pay, which includes overtime (paid at one and a half times the normal rate) for each hour over 40. For example, if an employee earning 20.00 per hour works for 48 hours, then she will be paid for 40 hours at her normal rate plus 8 extra hours at 30.00. Print the base pay for the employee.

Then compute the tax paid by the employee, according to this formula: If the employee is 55 years old (or older), then the employee pays tax at a rate of 20% of the base pay; if the employee is below 55, then the tax is 10% of the base pay. Print the tax and the net pay after taxes.

After you print all of the information for an employee, read the data for the next employee, process this new employee, and so on, until you read the last employee. You must decide how to detect the end of the set of employees (you should explain your choice in a comment).

After processing the last employee, print a message saying that the payroll program is complete.

DATA:
Attached to the assignment is the data you should use when you are sure the program is working correctly.

In addition to the above:
1. Print the Employee number and age of the oldest employee.
2. Print the Employee number and taxes of the employee who paid the most in taxes. These names should be printed after the entire set of employees has been processed.

Data for Assignment #2

323456	42.0	3.00	54
783454	48.0	10.00	45
564789	37.0	6.00	59
230234	20.0	7.00	12
123987	50.0	12.00	55
347654	80.0	5.00	123
345267	30.0	23.00	74
467843	12.5	6.50	45
134267	67.3	11.25	58
312546	35.0	25.00	48