## **Payroll 2**

**(Payroll Register)**

**Program Description:** Input to a payroll program consists of the employee’s number, year-to-date pay, base pay rate, shift code, and hours worked. Write a program to read these data from an external file, compute the employee’s gross pay, withholding tax, social security tax, and net pay, and print these results along with the employee’s number.

The gross pay is found by multiplying the hours worked by the pay rate where the pay rate is the product of the base pay rate and the shift factor.

The withholding tax is the product of the gross pay and the tax rate. The tax rate is found from the following table:

| **Gross Pay Tax Rate** |
| --- |
| Less than $100.00 0 |
| $100.00 to $149.99 8% |
| $150.00 to $199.00 12% |
| $200.00 to $299.99 15% |
| $300.00 or more 17.5% |

The social security tax (FICA tax) depends on the gross pay and the year-to-date pay. If the year-to-date pay is greater than $17,300, then there is no social security tax. If the year-to-date pay plus the gross pay is less than or equal to $17,300, then the social security tax is 6.05% of the gross pay. If the year-to-date pay is less then $17,300, but the sum of the year-to-date pay and gross pay is greater than $17,300, then the tax is 6.05% of the difference between $17,300 and the year-to-date pay plus the gross pay.

The data file consist of an employees information on a single line. An integer ID, decimal ytd pay, decimal base pay, decimal shift code and decimal hours worked.

**Statements Required:** input, output, decision making, loops

**Data Location:** payroll.dat

**Sample output:**

Employee number 1001

Hours 34.50 Rate 4.50 Shift Factor 1.25

Current Year-to date

Gross Pay 194.06 1056.10

Withholding 23.29

FICA 11.74

Net Pay 159.03

Employee number 1002

Hours 25.00 Rate 3.25 Shift Factor 1.00

Current Year-to date

Gross Pay 81.25 3970.00

Withholding 0.00

FICA 4.92

Net Pay 76.33

sample output: program 214b (continued)

Employee number 1003

Hours 30.00 Rate 4.00 Shift Factor 1.00

Current Year-to date

Gross Pay 120.00 12485.50

Withholding 9.60

FICA 7.26

Net Pay 103.14

Employee number 1004

Hours 38.50 Rate 5.25 Shift Factor 1.50

Current Year-to date

Gross Pay 303.19 15587.40

Withholding 53.06

FICA 18.34

Net Pay 231.79

Employee number 1005

Hours 40.00 Rate 6.25 Shift Factor 1.00

Current Year-to date

Gross Pay 250.00 17188.50

Withholding 37.50

FICA 8.38

Net Pay 204.12

Employee number 1006

Hours 48.00 Rate 8.95 Shift Factor 1.50

Current Year-to date

Gross Pay 644.40 19109.40

Withholding 112.77

FICA 0.00

Net Pay 531.63

Employee number 1007

Hours 35.00 Rate 5.00 Shift Factor 1.50

Current Year-to date

Gross Pay 262.50 15600.00

Withholding 39.38

FICA 15.88

Net Pay 207.24