#### IT-161 Java 1

#### Test 2 Practical

**Due Date: See BlackBoard**

# Demonstrate that you know how to define variables, create conditional statements, write a loop, use arrays, obtain input from the user, display output, test and create a JavaDoc.

Create project PaystubTest2 that is a Paystub calculator with program Paystub.java based on user input. This program will calculate the Gross Earnings, FICA tax (Medicare and Social Security taxes), Federal Tax Withheld, and Net Amount of the payroll check for each employee of a company. (80 points)

**INPUT**

The application must be able to collect the following “required” information for each employee:

1. Name
2. Hourly Wage
3. Hours Worked
4. Withholding Exemptions
5. Marital Status (Single or Married)

**OUTPUT**

These are the outputs:

1. For each employee display the following:
   1. Gross Earnings
   2. FICA Tax (display both Medicare and Social Security taxes)
   3. Federal Income Tax Withheld
   4. Net Earnings

**PROCESS**

For each employee (HINT: Do while QUIT is not entered) calculate the following for their individual payroll for the week. Use an array to hold the gross pay amounts and print the grand payroll total once the user types QUIT.

*Gross earnings*: Hourly wage times hours worked (with time and a half after 40 hours).

*FICA Tax:* sum of 6.2% of the total wages (Social Security tax) and 1.45% of total wages (Medicare tax)

*Federal Income Tax Withheld:* Subtract $55.77 from the gross earnings for each withholding exemption giving the Adjusted Gross Income. Based on the Adjusted Gross Income, use the following parameters to determine the federal tax based on marital status:

|  |  |  |
| --- | --- | --- |
| **Adjusted Gross Income** | **Income Tax Withheld (S)** | **Income Tax Withheld (M)** |
| $0 to $50 | $0 | $0 |
| $51 to $500 | 10% over $51 | 5% over $51 |
| $501 to $2,500 | $45.00 + 15% of amount over $500.00 | $22.50 + 10% of amount over $500.00 |
| $2,501 to $5,000 | $345.00 + 20% of amount over $2,500 | $225.50 + 15% of amount over $2,500 |
| Over $5,000 | $845.00 + 25% of amount over $5,000 | $600.50 + 20% of amount over $5,000 |

*Net Earnings*: Gross Earnings – FICA taxes – Federal Income Tax Withheld

You must create a JavaDoc for this project. (10 points)

Be sure to include a print screen of your test results. (10 points)