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CIS1400-003 PayCalculator Program

08/27/2012

### **Pseudocode**

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// Descr: Program to calculate gross pay, taxes, and net pay.

Module main()

    Declare Real hours, payRate, grossPay, taxes, netPay // all variables of type Real

    Constant Real TAX\_RATE = 0.25

    // Get input data from user

    Display "Enter the number of hours"

    Input hours

    Display "Enter the hourly pay rate"

    Input payRate

    // Calculate pay and taxes

    Set grossPay = hours \* payRate

    Display "The gross pay is \$", grossPay

    Set taxes = grossPay \* TAX\_RATE

    Display "The taxes are \$", taxes

    Set netPay = grossPay – taxes

    Display "The net pay is \$", netPay

End Module

**Hand Trace Chart**

Statement	hours	payRate	grossPay	taxes	netPay	TAX_RATE
Declare Real hours, payRate, grossPay, taxes, netPay						
Constant Real TAX_RATE = 0.25						0.25
Display "Enter the number of hours the employee worked: "						0.25
Input hours	10.5					0.25
Display "Enter the employee's hourly pay rate: "	10.5					0.25
Input payRate	10.5	12.25				0.25
Set grossPay = hours * payRate	10.5	12.25	128.625			0.25
Display "The employee's gross pay is \$", grossPay	10.5	12.25	128.625			0.25
Set taxes = grossPay * TAX_RATE	10.5	12.25	128.625	32.16		0.25
Display "The taxes are \$", taxes	10.5	12.25	128.625	32.16		0.25
Set netPay = grossPay – taxes	10.5	12.25	128.625	32.16	96.465	0.25
Display "The net pay is \$", netPay	10.5	12.25	128.625	32.16	96.465	0.25