|  |
| --- |
| PayrollController |
| - Regular\_Rate: double  - Overtime\_Rate: double  - State\_Tax\_Rate: double  - Education\_Tax\_Rate: double  - Social\_Security\_Rate: double  - Medicare\_Rate: double  - employeeName: string  - regularHours: double  - overtimeHours: double  - regularPay: double  - overtimePay: double  - TotalgrossPay: double  - stateTax: double  - educationTax: double  - socialSecurity: double  - Medicare: double  - netIncome: double  EmployeePay()  run(): void  - calculatePay(): void  - calculateTaxes(): void  - printPayAdvice(): void |
| Int main() |
|  |

START

Let regularRate, overtimeRate, stateTaxRate, educationTaxRate, socialSecurityRate, medicareRate be constant real numbers

Let employeeName be a string

Let regularHours, overtimeHours be real numbers

Let regularPay, overtimePay, totalGrossPay, stateTax, educationTax, socialSecurity, medicare, netIncome be real numbers

Let continueProcessing be a boolean

regularRate = 40.00

overtimeRate = 60.00

stateTaxRate = 0.20

educationTaxRate = 0.02

socialSecurityRate = 0.04

medicareRate = 0.04

continueProcessing = true

WHILE continueProcessing is true DO

Display "Enter employee name:"

Input employeeName

Display "Enter regular hours worked:"

Input regularHours

Display "Enter overtime hours worked:"

Input overtimeHours

regularPay = regularHours \* regularRate

overtimePay = overtimeHours \* overtimeRate

totalGrossPay = regularPay + overtimePay

stateTax = totalGrossPay \* stateTaxRate

educationTax = totalGrossPay \* educationTaxRate

socialSecurity = totalGrossPay \* socialSecurityRate

medicare = totalGrossPay \* medicareRate

netIncome = totalGrossPay - stateTax - educationTax - socialSecurity - medicare

Display "Pay Advice for", employeeName

Display "Total Gross Pay: $", totalGrossPay

Display "State Tax: $", stateTax

Display "Education Tax: $", educationTax

Display "Social Security: $", socialSecurity

Display "Medicare: $", medicare

Display "Net Income: $", netIncome

Display "Do you want to continue? (Y/N):"

Input continueProcessing

IF continueProcessing is not equal to 'Y' THEN

continueProcessing = false

END IF

END WHILE

STOP