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/*Mochire Boaz Momanyi
C++ code on gross pay,tax and net salary
BSE-05-0005/2024
25 Sunday 2025
Version 2*/
#include <iostream>
#include <iomanip> // Required for
std::fixed and std::setprecision

int main() {
    double hoursWorked;
    double hourlyWage;
    double grossPay;
    double overtimePay = 0.0;
    double regularPay;
    double taxes;
    double netPay;

    const double OVERTIME_THRESHOLD =
40.0;
    const double
```

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OVERTIME_RATE_MULTIPLIER = 1.5;
    const double TAX_RATE_FIRST_600 =
0.15;
    const double TAX_RATE_REST = 0.20;
    const double
TAX_THRESHOLD_FIRST_600 = 600.0;

    std::cout << "--- Weekly Pay Calculator ---"
<< std::endl;

    std::cout << "Enter hours worked in a
week: ";
    std::cin >> hoursWorked;

    std::cout << "Enter the hourly wage: $";
    std::cin >> hourlyWage;

    // Calculate Gross Pay
    if (hoursWorked >
OVERTIME_THRESHOLD) {
        regularPay = OVERTIME_THRESHOLD
```

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* hourlyWage;
        double overtimeHours = hoursWorked
- OVERTIME_THRESHOLD;
        overtimePay = overtimeHours *
hourlyWage *
OVERTIME_RATE_MULTIPLIER;
        grossPay = regularPay + overtimePay;
    } else {
        grossPay = hoursWorked *
hourlyWage;
    }

    // Calculate Taxes
    if (grossPay <=
TAX_THRESHOLD_FIRST_600) {
        taxes = grossPay *
TAX_RATE_FIRST_600;
    } else {
        taxes = (TAX_THRESHOLD_FIRST_600
* TAX_RATE_FIRST_600) +
                ((grossPay -
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TAX_THRESHOLD_FIRST_600) *
TAX_RATE_REST);
    }

    // Calculate Net Pay
    netPay = grossPay - taxes;

    // Output results
    std::cout << std::fixed <<
std::setprecision(2); // Format output to 2
decimal places

    std::cout << "\n--- Paycheck Summary ---"
<< std::endl;
    std::cout << "Hours Worked:   " <<
hoursWorked << std::endl;
    std::cout << "Hourly Wage:    $" <<
hourlyWage << std::endl;
    std::cout << "--------------------" << std::endl;
    std::cout << "Gross Pay:      $" <<
grossPay << std::endl;
```

```
    std::cout << "Taxes:          $" << taxes <<
std::endl;
    std::cout << "Net Pay:        $" << netPay
<< std::endl;

    return 0;
}
```