

```
// CH 4.2 lab.cpp : Defines the entry point for the console application.
```

```
#include "stdafx.h"
#include <iostream>
using namespace std;
```

```
constexpr auto TAX = 0.035; // TAX Rate
constexpr auto OVERTIME = 1.5; // Overtime Rate
```

```
// Function Prototypes
void calcPay(double, double);
```

```
int main() {

    double hourlyWage;
    double hoursWorked;
    double pay;
    int quit = 0;

    while (quit != -1) {

        // Get hourly wage
        cout << "Enter hourly wage: ";
        cin >> hourlyWage;

        // Get hours worked per week
        cout << "Enter hours worked: ";
        cin >> hoursWorked;

        calcPay(hourlyWage, hoursWorked);

        cout << "Would you like to figure another employee's pay?" << endl;
        cout << "Enter a 1 For Yes or -1 For No: ";
        cin >> quit;

    }
    system("pause");
    return 0;
}
```

```
// Calculate pay for employees who worked fourty hours and workers
// who worked overtime
```

```
void calcPay(double wage, double hours) {
    double grossPay;
    double netPay;
    double hoursOverFourty;

    if (hours <= 40) {
        grossPay = hours * wage;
        netPay = grossPay - (grossPay * TAX);
        cout << "Gross Pay: " << grossPay << endl;
        cout << "Net Pay : " << netPay << endl;
    }
    else {
        hoursOverFourty = hours - 40;
        grossPay = (wage * 40) + (hoursOverFourty * (wage * OVERTIME));
        netPay = grossPay - (grossPay * TAX);
        cout << "Gross Pay: " << grossPay << endl;
        cout << "Net Pay : " << netPay << endl;
    }
}
```