Problem.
Assume that a video store employee works 50 hours. He is paid accordingly:
$4.50 for the first 40 hours 1.5 times the regular pay rate for the first five hours over 40
Double-time pay for all hours over 45
After calculating the basic pay according to the above details, 28 percent tax is also deducted from his salary. After deducting the tax from Basic pay we get the Net Pay. Write a program that prints his Basic Pay, Tax, and Net pay on the screen. Label each amount with appropriate titles and add appropriate comments in the program.
Solution.

Code

```cpp
#include <iostream>

using namespace std;

int main() {
    float time;
    float pay = 0;
    float rate = 4.5;
    float tax;
    float netPay;

    // Input
    cout << "Time: ";
    cin >> time;

    // Double time pay
    if (time > 50) {
        pay += (time - 45) * 2 * rate;
        time = 45;
    }

    // 1.5 times the regular pay rate
    if (time > 40) {
        pay += (time - 40) * 1.5 * rate;
        time = 40;
    }

    // Regular pay
    pay += time * rate;

    // Tax
    tax = 0.28 * pay;
    netPay = pay - tax;

    // Output
    cout << "Basic pay: $" << pay << endl;
    cout << "Tax: $" << tax << endl;
    cout << "Net pay: $" << netPay << endl;

    return 0;

}
```

Result
Time: 53
Basic pay: $285.75
Tax: $80.01
Net pay: $205.74