**Exam 3 Study Guide**

For exam 3, you will be submitting one complete C++ program into Canvas similar to the following example for one employee. **You will need to create the exact output specified on the exam question** and **you will need to copy and paste your output to the bottom of your program as a comment.**

The #define and system pause statements are only needed for Visual Studio.

#define \_CRT\_SECURE\_NO\_WARNINGS

#include <iostream>

#include <iomanip>

#include<string>

using namespace std;

class Payroll {

public:

Payroll(const char \* = " ", float = 0.0, float = 0.0, float = 0.0);

~Payroll();

void calc(float);

void print();

private:

char name[20];

float hours, rate, taxp, gross, tax, net;

};

Payroll::Payroll(const char \*n, float h, float r, float tp)

{

strcpy(name, n);

hours = h;

rate = r;

taxp = tp;

gross = hours \* rate;

tax = gross \* (taxp / 100);

net = gross - tax;

}

Payroll:: ~Payroll()

{

cout << "the net pay of $" << net << " is destroyed" << endl << endl;

system("PAUSE");

}

void Payroll::calc(float raiseper)

{

rate = rate + (rate \* raiseper/100);

gross = hours \* rate;

tax = gross \* (taxp / 100);

net = gross - tax;

}

void Payroll::print()

{

cout << "the employee name is " << name << endl;

cout << "the hours are " << hours << endl;

cout << "the rate is " << rate << endl;

cout << "the tax percent is " << taxp << endl;

cout << "the gross pay is $" << gross << endl;

cout << "the tax amount is $" << tax << endl;

cout << "the net pay is $" << net << endl;

}

int main()

{

Payroll p("Linda Smith", 30.0, 20.0, 10.0);

cout << setprecision(2) << showpoint << fixed;

p.print();

cout << endl << endl;

float raiseper;

cout << "Please enter the percentage of the raise ";

cin >> raiseper;

p.calc(raiseper);

cout << endl << endl<< "after the raise" << endl << endl;

p.print();

cout << endl << endl;

return 0;

}

/\*

the employee name is Linda Smith

the hours are 30.00

the rate is 20.00

the tax percent is 10.00

the gross pay is $600.00

the tax amount is $60.00

the net pay is $540.00

Please enter the percentage of the raise 20.0

after the raise

the employee name is Linda Smith

the hours are 30.00

the rate is 24.00

the tax percent is 10.00

the gross pay is $720.00

the tax amount is $72.00

the net pay is $648.00

the net pay of $648.00 is destroyed

Press any key to continue . . .

\*/