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Program 4

SE114.11

PURPOSE:

Write a program which will help the payroll department calculate the pay for assigned employees.

Develop a program which will ask the user to enter the employee name, hours worked, hourly rate of pay, and number of exemption.

Develop a hierarchy chart which shows the major components of the program and a flow chart for each module used.

VARIABLE DICTIONARY:

REPRESENTS VARIABLE

Employee Name employee\_name

Federal Withholding Tax federal\_withholding\_tax

Gross Pay gross\_pay

Hourly Rate of Pay hourly\_rate\_of\_pay

Hours Worked hours\_worked

Net Pay net\_pay

Number of Exemptions number\_of\_exemptions

Factor for Federal Withholding Tax rate\_one

Factor for Federal Withholding Tax rate\_two

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#include <iostream>

#include <string>

using namespace std;

string employee\_name;

int number\_of\_exemptions;

double federal\_withholding\_tax;

double gross\_pay;

double hourly\_rate\_of\_pay;

double hours\_worked;

double net\_pay;

double rate\_one;

double rate\_two;

void setup\_function();

void headings\_function();

void input\_function();

void process\_function();

void totals\_function();

int main()

{

system("cls");

setup\_function();

headings\_function();

input\_function();

process\_function();

totals\_function();

system ("pause");

return 0;

}

void setup\_function()

{

rate\_one = 0.16;

rate\_two = 53.5;

}

void headings\_function()

{

cout << " ABC Company" << endl;

cout << " Employee Payroll Calculator" << endl;

cout << "Please enter:" << endl <<endl;

}

void input\_function()

{

cout << "Employee Name: ";

cin >> employee\_name;

cout << "Number of Exemptions: ";

cin >> number\_of\_exemptions;

cout << "Hourly Rate of Pay: ";

cin >> hourly\_rate\_of\_pay;

cout << "Hours Worked: ";

cin >> hours\_worked;

cout << endl;

}

void process\_function()

{

gross\_pay = hours\_worked \* hourly\_rate\_of\_pay;

federal\_withholding\_tax = rate\_one \* (gross\_pay - number\_of\_exemptions \* rate\_two);

net\_pay = gross\_pay - federal\_withholding\_tax;

}

void totals\_function()

{

cout << "Gross Pay: " << gross\_pay << endl;

cout << "Federal Withholding Tax: " << federal\_withholding\_tax << endl;

cout << "Net Pay: " << net\_pay << endl;

cout << endl;

cout << "End of Payroll Report for " << employee\_name << endl << endl;

}