CSC 126

Individual Assignment (Stage 3)

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GROUP: CS110 1C

CODING

```
using namespace std;
/*The purpose of this program: To get the Employee's data and find the Employee's net pay
Assignment 3
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//Function to get all input data from user
void inputData (int&id, string&name, double&hours){
    cout<<"Employee ID = ";</pre>
    cin>>id;
    cout<<"Employee First Name = ";</pre>
    cin>>name;
    cout<<"Hours worked per week (hours) = ";</pre>
    cin>>hours;
//Function to calculate gross Pay
double calcGross(double hours){
   double gross;
   if (hours<=40)
        gross=hours*8.0;
   else if (hours<=50)
            gross=(hours-40)*12+320; //320 = 40 * 8 >> 12 = 8*1.5
        gross=(hours-50)*16+440; //440 = 320 + (10 * 12) >> 16 = 8*2
    return gross;
//Function to calculate deduction
double calcDeduc(double gross){
   double deduc;
   deduc =(gross*0.19)+10; //0.19 = 0.08(income \ tax) + 0.11(KWSP) >> 10(the \ employee's \ union)
   return deduc;
//Function to calculate net pay
double calcNet(double gross, double deduc){
   double net;
   net=gross-deduc;
   return net;
```

```
//Function to find highest net
double highNet(double net, double&high){
    if (net>high)
        high=net;
    return high;
//Function to find highest name
void highnetname(double net, double&high, string name, string&hname){
    if (net>high)
        hname=name;
//Main function
int main (){
    int id, n=0, u1200=0;
    string name, hname;
    double hours, gross, deduc, net, month, high=-999999999;
    char confirm='y';
    cout<<"Fill the data of the employees below : "<<endl;</pre>
    //Loop to find the employees data and net pay
    while(tolower(confirm)!='n'){
        //display the number of employee
        cout<<"\n\t\t\t\t\tEmployee "<<n+1<<endl<<endl;</pre>
        //Function to get all input data from user caller
        inputData (id, name, hours);
        //Function to calculate gross Pay caller
        gross=calcGross(hours);
        cout<<"Gross Pay = RM ";</pre>
        cout<<fixed<<setprecision(2)<<gross<<endl; //Fix the decimal point to 2d.p.</pre>
        //Function to calculate deduction caller
        deduc=calcDeduc(gross);
        cout<<"Deduction = RM ";</pre>
        cout<<fixed<<setprecision(2)<<deduc<<endl; //Fix the decimal point to 2d.p.</pre>
        //Function to calculate net pay caller
        net=calcNet(gross,deduc);
        cout<<"The Net Pay = RM ";</pre>
        cout<<fixed<<setprecision(2)<<net<<endl; //Fix the decimal point to 2d.p.</pre>
        //Function to find the highest among the employees caller
        highnetname(net, high, name, hname);
        high=highNet(net,high);
```

```
//Calculation and process to find the total employees is under paid which RM1200 per month
   month=net*4;
    if (month<1200)</pre>
       u1200++;
   //updating
   n++;
    cout<<"Do you want to continue (y/n) : ";</pre>
    cin>>confirm;
//OUTPUT statement
cout<<"\n\nTHE TOTAL OF EMPLOYEES : "<<n<<endl;</pre>
cout<<"THE HIGHEST PAID :- "<<endl;</pre>
cout<<"THE TOTAL OF EMPLOYEES THAT PAID BELOW RM 1200 per month : "<<u1200<<endl;</pre>
cout<<"\n\t-THANK YOU-"<<endl;</pre>
return 0;
```

TESTING

1) ALL EMPLOYEE'S NETPAY ABOVE RM 1200

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2) ALL EMPLOYEE'S NETPAY BELOW RM 1200

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Employee 1

Employee 19

Employee 19 - 484848
Employee First Name - Faziq
Hours worked per week (Nours) - 40
Hours worked per week (Nours) - 50
Employee 2

Employee 19 - 505850
Employee First Name - Peah
Hours worked per week (Hours) - 35
Gross Pay - RN 280.00
Deviction N 10 328.00
The Nours worked per week (Hours) - 42
Gross Pay - RN 384.00
Deduction - RN 17 5.36
The Net Pay - RN 280.60
Deviction N 17 5.36
The Net Pay - RN 280.60
Deviction N 17 5.36
The Net Pay - RN 280.60
The TOTAL OF EMPLOYEES : 3
THE HIGHST PAID : 

**TASK!**

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3) 2 EMPLOYEE'S NETPAY BELOW RM 1200

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Employee 1

Employee 10 - 707070

Employee First Name - Zack

Reployee First Name - Lopez

Reployee First Name - Sack

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4) 1 EMPLOYEE'S NETPAY BELOW RM 1200

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Employee 1

Employee 10 - 100100100 First limine First
Do you want to continue (y/n) : y

Employee 2

Employee 10 - 2002002000
Employee First Name - Raziq
Hours worked flours) - 50
Dodouttin - RM 33,60
The Net Pay - RM 346,40
Do you want to continue (y/n) : y

Employee 3

Employee 3

Employee First Name - Raziq
Hours worked flours) - 60
Employee First Name - Raziq
Hours worked flours) - 80
Employee First Name - Raziq
Hours worked flours) - 80
Employee First Name - Haslinda
Hours worked per week (hours) - 80
Employee First Name - Haslinda
Hours worked per week (hours) - 80
Employee First Name - Haslinda
Hours worked per week (hours) - 80
Employee First Name - Haslinda
Hours worked per week (hours) - 80
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Employee First Name - Haslinda
Hours worked per week (hours) - 80
Employee First Name - Haslinda
Hours worked per week (hours) - 80
Employee First Name - Haslinda
Hours worked Per week (hours) - 80
Employee First Name - Haslinda
Hours worked First No. 80
Employee First Name - Haslinda
Hours worked First No. 80
Employee First Name - Raziq
Hours Worked -
```

5) ALL UPDATING PART USER ENTER IN CAPITAL LETTERS