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/*****
**   Program Filename: A6-1.cpp
**   Author: Jessica Schuler
**   Date: 2-15-14
**   Description: This program adds to an employee class to track data
**                 about employees such as name, ssn #, and pay.
**   Input: employee name, ssn #, pay, title, department, supervisor, ect.
**   Output: Can output employee data or print paycheck
*****/

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#include<iostream>
#include<string>
#include<cstdlib>

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using namespace std;
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class Employee
{
    public:
        Employee();
        Employee(string name, string ssn, double netPay);
        string getName();
        string getSsn();
        double getNetPay();
        void setName(string newName);
        void setSsn(string newSsn);
        void setNetPay(double newNetPay);
        void printCheck();
    private:
        string name;
        string ssn;
        double netPay;
};

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Employee :: Employee ()
{
    name = "No Name";
    ssn = "No SSN #";
    netPay = 0;
}

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```

Employee :: Employee (string name, string ssn, double netPay)
{
    name = newName;
    ssn = newSsn;
    netPay = 0;
}

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string Employee :: getName()
{
    return name;
}

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string Employee :: getSsn ()
{
    return ssn;
}

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double Employee :: getNetPay()
{

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        return netPay;
    }

void Employee :: setName(string newName)
{
    name = newName;
}

void Employee :: setSsn(string newSsn)
{
    ssn = newSsn;
}

void Employee :: setNetPay (double newNetPay)
{
    netPay = newNetPay;
}

void Employee :: printCheck()
{
    cout << "Error: Print Check Function called for an";
    cout << "undifferentiated employee."<<endl;
    cout << "Aborting Program!"<<endl;
    exit(1);
}

class SalariedEmployee : public Employee
{
    public:
        SalariedEmployee();
        SalariedEmployee(string name, string ssn, double salary);
        double getSalary();
        void setSalary();
        void printCheck();
    protected:
        double salary;
};

SalariedEmployee :: SalariedEmployee(): Employee(), salary(0)
{
    //left blank
}

SalariedEmployee :: SalariedEmployee(string newName,string newSsn,
        double Salary)
        : Employee(string newName, string newSsn, double netpay)
{
    //left blank
}

double SalariedEmployee :: getSalary()
{
    return salary;
}

void SalariedEmployee :: setSalary()
{
    salary = newSalary;
}

void SalariedEmployee :: printCheck()

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    setNetPay(salary);
    cout << "_____ " << endl;
    cout << "Pay to the order of " << getName() << endl;
    cout << "The sum of " << getNetPay() << " Dollars " << endl;
    cout << "_____ " << endl;
    cout << "Check Stub NOT NEGOTIABLE! " << endl;
    cout << "Employee Number: " << getSsn () << endl;
    cout << "Salaried Employee. Regular Pay: " << salary << endl;
    cout << "_____ " << endl;
}

class Administrator : public SalariedEmployee
{
public:
    Administrator ();
    Administrator (string title, string department, string supervisor);
    void getdata();
    void changeSuper(string newSup);
    void print();
    void printCheck();
protected:
    double salary;
    string title;
    string department;
    string supervisor;
};

Administrator :: Administrator() : SalariedEmployee()
{
    cout << "Hello Administrator!" << getdata() << endl;
}

Administrator :: Administrator(string title, string department, string supervisor)
    : SalariedEmployee()
{
}

void Administrator :: changeSuper(string newSup)
{
    supervisor = newSup;
}

void Administrator :: getdata()
{
    cout << "Enter Employee's Title: " ;
    cin >> title >> endl;
    cout << "Enter Employee's Department: ";
    cin >> department >> endl;
    cout << "Enter Employee's Supervisor Name: ";
    cin >> supervisor >> endl;
    cout << "Enter Employee's Salary: ";
    cin >> salary >> endl;
}

void Administrator :: print()
{
    cout << "Employee Data: "<< endl;
    cout << "Name: "<< name << endl;
}

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```
    cout << "Salary: " << salary << endl;
    cout << "SSN #: " << ssn << endl;
    cout << "Title: " << title << endl;
    cout << "Department: " << department << endl;
    cout << "Supervisor: " << supervisor << endl;
}

void printCheck()
{
    int print;
    print = SalariedEmployee :: printCheck();
    cout << print;
}

int main()
{
    Administrator A1;

    return 0;
}
```