//Author: Mengge Li

//Project 2

//2013/5/26

**public** **class** PayCheck {

**public** **static** **final** **double** *FEDERAL\_TAX*=0.22;

**public** **static** **final** **double** *STATE\_TAX*=0.04;

**public** **static** **final** **double** *SOCIAL\_SECUITY\_TAX*=0.05;

**public** **static** **final** **double** *MEDICARE\_TAX*=0.02;

**public** **static** **final** **double** *LOCAL\_TAX*=0.012;

**private** String employeeName;

**private** String employeeID;

**private** **double** hourlyWage;

**private** **double** totalHours;

**public** PayCheck(){

employeeName=**null**;

employeeID=**null**;

hourlyWage=0.0;

totalHours=0.0;

}

**public** PayCheck(String ininame,String iniID,**double** inihourlyWage,**double** initotalHours){

employeeName=ininame;

employeeID=iniID;

hourlyWage=inihourlyWage;

totalHours=initotalHours;

}

**public** **double** getGrossPay(){

**double** grossPay;

**if** (totalHours<=40)

{grossPay=totalHours\*hourlyWage;}

**else**{

grossPay=40\*hourlyWage+(totalHours-40)\*(1.5\*hourlyWage);}

**return** grossPay;

}

**public** **double** getFedTax(){

**return** getGrossPay()\**FEDERAL\_TAX*;

}

**public** **double** getSocialSecTax(){

**return** getGrossPay()\**SOCIAL\_SECUITY\_TAX*;

}

**public** **double** getMedicareTax(){

**return** getGrossPay()\**MEDICARE\_TAX*;

}

**public** **double** getStateTax(){

**return** getGrossPay()\**STATE\_TAX*;

}

**public** **double** getLocalTax(){

**return** getGrossPay()\**LOCAL\_TAX*;

}

**public** **double** getNetPay(){

**double** netPay;

netPay=getGrossPay()-getFedTax()-getSocialSecTax()-getMedicareTax()-getStateTax()-getLocalTax();

**return** netPay;

}

**public** String getName(){

**return** employeeName;

}

**public** String getID(){

**return** employeeID;

}

**public** **void** raiseWage(**double** byPercent){

**double** newWage;

newWage=(1+byPercent/100)\*hourlyWage;

hourlyWage=newWage;

}

}