package LabTest;

import java.util.Calendar;

import java.util.\*;

public abstract class Employee {

private String firstname;

private String lastname;

private String securitynumber;

private Calendar birthdate;

public Employee(String fname,String lname,String snum){

firstname=fname;

lastname=lname;

securitynumber=snum;

birthdate=Calendar;

}

public void setFirstname(String firstname) {

this.firstname = firstname;

}

public String getFirstname() {

return firstname;

}

public void setLastname(String lastname) {

this.lastname = lastname;

}

public String getLastname() {

return lastname;

}

public Calendar getBirthdate() {

return birthdate;

}

public void setBirthdate(Calendar birthdate) {

this.birthdate = birthdate;

}

public void setSecuritynumber(String securitynumber) {

this.securitynumber = securitynumber;

}

public String getSecuritynumber() {

return securitynumber;

}

public abstract String toString();

public abstract double earning();

} //employee

class HourlyEmployee extends Employee{

private double wage;

private double hour;

public HourlyEmployee(String fname, String lname,String snum,double wage,double hour){

super(fname, lname, snum);

this.wage=wage;

this.hour=hour;

}

public void setWage(double wage) {

this.wage = wage;

}

public double getWage() {

return wage;

}

public void setHour(double hour) {

this.hour = hour;

}

public double getHour() {

return hour;

}

@Override

public double earning(){

return getWage()\*getHour();

}

public String toString(){

return getFirstname()+getLastname()+getSecuritynumber()+getBirthdate().getTime()+getWage()+getHour()+ " ";

}

}

//Hourly Employee

class salariedEmployee extends Employee {

private double weeklysalaray;

public salariedEmployee(String fname, String lname,String snum, double weksal){

super(fname,lname,snum);

weeklysalaray=weksal;

}

public void setWeeklysalaray(double weeklysalaray) {

this.weeklysalaray = weeklysalaray;

}

public double getWeeklysalaray() {

return weeklysalaray;

}

@Override

public double earning(){

return getWeeklysalaray()\*4.2;//monthly 30days

}

public String toString(){

return getFirstname()+getLastname()+getSecuritynumber()+getBirthdate().getTime()+getWeeklysalaray()+ " ";

}

}

//salaried Employee

class Main {

public static ArrayList<Employee> obj = new ArrayList<Employee>();

public static void main(String[] args) {

Scanner in = new Scanner(System.in);

Calendar calendar = Calendar.getInstance();

int sum;

boolean k = false;

System.out.println("Press 1 for salaried Employee");

System.out.println("Press 2 for Hourly Employee");

int x = in.nextInt();

while (true) {

if (x == 1) {

Employee obj1 = new salariedEmployee("a","b","21232",343948);

obj.add(obj1);

for(int i=0;i< obj.size();i++){

System.out.println(obj.get(i).earning());

}

}

else if(x==2){

Employee obj2 = new HourlyEmployee("a","b","2123",2034,3434);

obj.add(obj2);

for(int i=0;i< obj.size();i++){

System.out.println(obj.get(i).earning());

}

}

else{

break;

}

} //1

class Bonus{ //3

private String bonustype;

private double amount;

public void setbonustype(String bonustype){

this.bonustype=bonustype;

}

public void setamount(double amount){

this.amount=amount;

}

public Bonus(){

this.bonustype="";

this.amount=0;

}

public Bonus(String bonustype,double amount){

this.bonustype=bonustype;

this.amount= amount;

}

public void display(){

System.out.println("The bonus type is : "+bonustype+

"\nThe bonus amount is : "+amount);

}

}

//5

public boolean compare(salariedEmployee x,HourlyEmployee y){

if(x.earning()==y.earning())

return true;

else

return false;

}

public static searchemployee(String security){ //4

for(Employee ls:obj){

if(ls.getSecuritynumber()==security){

System.out.println(ls.toString());

}

}

}

}

}