public abstract class CanBoNV {

protected String maCBNV;

protected String hoTen;

protected int namTuyenDung;

protected float heSoLuong;

protected float heSoPhuCap;

// Constructor

public CanBoNV(String maCBNV, String hoTen, int namTuyenDung, float heSoLuong, float heSoPhuCap) {

this.maCBNV = maCBNV;

this.hoTen = hoTen;

this.namTuyenDung = namTuyenDung;

this.heSoLuong = heSoLuong;

this.heSoPhuCap = heSoPhuCap;

}

// Abstract method

public abstract double getSalary();

// Getter and Setter

public String getMaCBNV() { return maCBNV; }

public void setMaCBNV(String maCBNV) { this.maCBNV = maCBNV; }

public String getHoTen() { return hoTen; }

public void setHoTen(String hoTen) { this.hoTen = hoTen; }

public int getNamTuyenDung() { return namTuyenDung; }

public void setNamTuyenDung(int namTuyenDung) { this.namTuyenDung = namTuyenDung; }

public float getHeSoLuong() { return heSoLuong; }

public void setHeSoLuong(float heSoLuong) { this.heSoLuong = heSoLuong; }

public float getHeSoPhuCap() { return heSoPhuCap; }

public void setHeSoPhuCap(float heSoPhuCap) { this.heSoPhuCap = heSoPhuCap; }

@Override

public String toString() {

return "MaCBNV: " + maCBNV + ", HoTen: " + hoTen + ", NamTuyenDung: " + namTuyenDung

+ ", HeSoLuong: " + heSoLuong + ", HeSoPhuCap: " + heSoPhuCap;

}

}

public class GiangVien extends CanBoNV {

private String hocHamHocVi;

private String khoaCongTac;

private int soGioDay;

private double luongBoSung;

public GiangVien(String maCBNV, String hoTen, int namTuyenDung, float heSoLuong, float heSoPhuCap,

String hocHamHocVi, String khoaCongTac, int soGioDay) {

super(maCBNV, hoTen, namTuyenDung, heSoLuong, heSoPhuCap);

this.hocHamHocVi = hocHamHocVi;

this.khoaCongTac = khoaCongTac;

this.soGioDay = soGioDay;

// Xác định lương bổ sung

if (hocHamHocVi.equals("TS")) {

this.luongBoSung = 7000000;

} else if (hocHamHocVi.equals("PGS")) {

this.luongBoSung = 9000000;

} else if (hocHamHocVi.equals("GS")) {

this.luongBoSung = 12000000;

} else {

this.luongBoSung = 0;

}

}

@Override

public double getSalary() {

return (heSoLuong + heSoPhuCap) \* 2340000 \* 1.25 + soGioDay \* 200000 + luongBoSung;

}

@Override

public String toString() {

return super.toString() + ", HocHamHocVi: " + hocHamHocVi + ", KhoaCongTac: " + khoaCongTac

+ ", SoGioDay: " + soGioDay + ", LuongBoSung: " + luongBoSung;

}

}

public interface IGiangVien {

void addGiangVien(GiangVien gv);

void editGiangVien(GiangVien gv);

GiangVien searchGiangVien(String maCBNV);

double getTotalSalary(String hocHamHocVi);

}

import java.util.ArrayList;

public class QLGiangVien implements IGiangVien {

private ArrayList<GiangVien> danhSachGV = new ArrayList<>();

@Override

public void addGiangVien(GiangVien gv) {

danhSachGV.add(gv);

}

@Override

public void editGiangVien(GiangVien gv) {

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

if (danhSachGV.get(i).getMaCBNV().equals(gv.getMaCBNV())) {

danhSachGV.set(i, gv);

return;

}

}

}

@Override

public GiangVien searchGiangVien(String maCBNV) {

for (GiangVien gv : danhSachGV) {

if (gv.getMaCBNV().equals(maCBNV)) {

return gv;

}

}

return null;

}

@Override

public double getTotalSalary(String hocHamHocVi) {

double total = 0;

for (GiangVien gv : danhSachGV) {

if (gv.hocHamHocVi.equals(hocHamHocVi)) {

total += gv.getSalary();

}

}

return total;

}

}