```java
import java.util.Scanner;

public class MainClass {

    private Scanner s;
    private int numChoose;
    private SalariedEmployee salaried;
    private HourlyEmployee hourly;

    public MainClass() {
        salaried = new SalariedEmployee(1, "Renzo", "Cabarios", 20,
"123342234567", "1234", "1234", "1234", 5000);
        hourly = new HourlyEmployee(1, "Renzo", "Cabarios", 20,
"123342234567", "1234", "1234", "1234", 50, 20);

        s = new Scanner(System.in);

        System.out.println("Choose a number");
        numChoose = s.nextInt();
        s.nextLine();

        if(numChoose == 1){
            //salaried

            System.out.println(salaried.toString());
            System.out.println(salaried.weeklySalaryToString());
            System.out.println(salaried.monthlySalaryToString());

System.out.println(salaried.toStringDeduction(salaried.getMonthlySalary(salar
ied.getWeeklySalary())));

        }else {
            System.out.println(hourly.toString());
            System.out.println(hourly.weeklySalaryToString());
            System.out.println(hourly.monthlySalaryToString());

System.out.println(hourly.toStringDeduction(hourly.getMonthlySalary()));
        }

    }

    public static void main (String[] args){
        new MainClass();
    }
}
public class Employee {
    private static final double SSS_RATE = 0.02;
    private static final double PAGIBIG_RATE = 0.01;
    private static final double PHILHEALTH_RATE = 0.01;

    private int id;
    private String fName;
    private String lName;
    private int age;
    private String phoneNum;
    private String sssNum;
    private String pagibigNum;
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    private String philHealthNum;


    public Employee() {
    }

    public Employee(int id, String fName, String lName, int age, String
phoneNum, String sssNum, String pagibigNum, String philHealthNum) {
        this.id = id;
        this.fName = fName;
        this.lName = lName;
        this.age = age;
        this.phoneNum = phoneNum;
        this.sssNum = sssNum;
        this.pagibigNum = pagibigNum;
        this.philHealthNum = philHealthNum;
    }

    public static double getSssRate() {
        return SSS_RATE;
    }

    public static double getPagibigRate() {
        return PAGIBIG_RATE;
    }

    public static double getPhilhealthRate() {
        return PHILHEALTH_RATE;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getfName() {
        return fName;
    }

    public void setfName(String fName) {
        this.fName = fName;
    }

    public String getlName() {
        return lName;
    }

    public void setlName(String lName) {
        this.lName = lName;
    }

    public int getAge() {
        return age;
    }
```

```
    public void setAge(int age) {
        this.age = age;
    }

    public String getPhoneNum() {
        return phoneNum;
    }

    public void setPhoneNum(String phoneNum) {
        this.phoneNum = phoneNum;
    }

    public String getSssNum() {
        return sssNum;
    }

    public void setSssNum(String sssNum) {
        this.sssNum = sssNum;
    }

    public String getPagibigNum() {
        return pagibigNum;
    }

    public void setPagibigNum(String pagibigNum) {
        this.pagibigNum = pagibigNum;
    }

    public String getPhilHealthNum() {
        return philHealthNum;
    }

    public void setPhilHealthNum(String philHealthNum) {
        this.philHealthNum = philHealthNum;
    }

    @Override
    public String toString() {
        return "{" +
                "id=" + id +
                ", fName='" + fName + '\'' +
                ", lName='" + lName + '\'' +
                ", age=" + age +
                ", phoneNum='" + phoneNum + '\'' +
                ", sssNum='" + sssNum + '\'' +
                ", pagibigNum='" + pagibigNum + '\'' +
                ", philHealthNum='" + philHealthNum + '\'' +
                '}';
    }

    public String toStringDeduction(double salary) {
        return  "{" +
                "pension=" + getPensionCont(salary) +
                ", SSS='" + getSSSCont(salary) + '\'' +
                ", Pagibig='" + getPagibigCont(salary) + '\'' +
                ", PhilHealth=" + getPhilHealthCont(salary) +
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                ", Tax='" + getTaxCont(salary) + '\'' +
                ", Total Deduction='" + getTotalDeductions(salary) + '\'' +
                ", Net Salary='" + (salary - getTotalDeductions(salary)) +
'\'' +
                '}';
    }
    private double getTotalDeductions(double salary){
        double total = getPensionCont(salary) + getSSSCont(salary) +
getPagibigCont(salary) + getPhilHealthCont(salary) + getTaxCont(salary);
        return total;
    }

    private double getPensionCont(double salary) {
        double pensionCont = 0;
        if(age <= 17){
            pensionCont = 0;
        }else if(age > 17 && age <= 55){
            pensionCont = salary * 0.15;
        }else if(age > 55 && age <= 60){
            pensionCont = salary * 0.10;
        }else if(age > 60 && age <= 65){
            pensionCont = salary * 0.075;
        }else if(age > 65){
            pensionCont = salary * 0.05;
        }
        return pensionCont;
    }

    private double getSSSCont(double salary) {
        return salary * getSssRate();
    }
    private double getPagibigCont(double salary) {
        return salary * getPagibigRate();
    }
    private double getPhilHealthCont(double salary) {
        return salary * getPhilhealthRate();
    }

    private double getTaxCont(double salary) {
        double taxCont = 0;
        if(salary < 10000){
            taxCont = salary * 0.1;
        }else if(salary > 10000 && salary <= 30000){
            taxCont = 500 + ((salary - 10000) * 0.10);
        }else if(salary > 30000 && salary <= 70000){
            taxCont = 2500 + ((salary - 30000) * 0.15);
        }else if(salary > 70000 && salary <= 140000){
            taxCont = 8500 + ((salary - 70000) * 0.20);
        }else if(salary > 140000 && salary <= 250000){
            taxCont = 22500 + ((salary - 140000) * 0.25);
        }else if(salary > 250000 && salary <= 500000){
            taxCont = 50000 + ((salary - 250000) * 0.30);
        }else if(salary > 500000){
            taxCont = 125000 + ((salary - 500000) * 0.32);
        }
        return taxCont;
```

```
    }
}
public class SalariedEmployee extends Employee{

    private double weeklySalary;

    public SalariedEmployee(double weeklySalary) {
        this.weeklySalary = weeklySalary;
    }

    public SalariedEmployee(int id, String fName, String lName, int age,
String phoneNum, String sssNum, String pagibigNum, String philHealthNum,
double weeklySalary) {
        super(id, fName, lName, age, phoneNum, sssNum, pagibigNum,
philHealthNum);
        this.weeklySalary = weeklySalary;
    }

    public double getWeeklySalary() {
        return weeklySalary;
    }

    public void setWeeklySalary(double weeklySalary) {
        this.weeklySalary = weeklySalary;
    }



    public String weeklySalaryToString() {
        return "{" +
                "weeklySalary=" + weeklySalary +
                '}';
    }

    public String monthlySalaryToString() {
        return "{" +
                "monthlySalary=" + getMonthlySalary(getWeeklySalary()) +
                '}';
    }
    public double getMonthlySalary(double weeklySalary){
        return getWeeklySalary() * 4;
    }
}
public class HourlyEmployee extends Employee{

    private int hoursWorked;
    private double wageRate;

    public HourlyEmployee() {
    }

    public HourlyEmployee(int hoursWorked, double wageRate) {
        this.hoursWorked = hoursWorked;
        this.wageRate = wageRate;
    }

    public HourlyEmployee(int id, String fName, String lName, int age, String
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phoneNum, String sssNum, String pagibigNum, String philHealthNum, int
hoursWorked, double wageRate) {
        super(id, fName, lName, age, phoneNum, sssNum, pagibigNum,
philHealthNum);
        this.hoursWorked = hoursWorked;
        this.wageRate = wageRate;
    }

    public int getHoursWorked() {
        return hoursWorked;
    }

    public void setHoursWorked(int hoursWorked) {
        this.hoursWorked = hoursWorked;
    }

    public double getWageRate() {
        return wageRate;
    }

    public void setWageRate(double wageRate) {
        this.wageRate = wageRate;
    }

    public String weeklySalaryToString() {
        return "{" +
                "weeklySalary=" + getWeeklySalary() +
                '}';
    }

    public String monthlySalaryToString() {
        return "{" +
                "monthlySalary=" + getMonthlySalary() +
                '}';
    }

    public double getWeeklySalary(){
        int NORMAL_HOURS = 40;
        double weekly;
        int extraHours;

        if(getHoursWorked() > NORMAL_HOURS){
            extraHours = getHoursWorked() - 40;
            weekly = (NORMAL_HOURS*getWageRate()) +
(getWageRate()*1.5)*extraHours;
            return weekly;
        }

        weekly = getHoursWorked() * getWageRate();
        return weekly;
    }

    public double getMonthlySalary(){
        return getWeeklySalary() * 4;
    }
}
```

```
Choose a number
2
{id=1, fName='Renzo', lName='Cabarios', age=20, phoneNum='123342234567', sssNum='1234', pagibigNum='1234', philHealthNum='1234'}
{weeklySalary=1100.0}
{monthlySalary=4400.0}
{pension=660.0, SSS='88.0', Pagibig='44.0', PhilHealth=44.0, Tax='440.0', Total Deduction='1276.0', Net Salary='3124.0'}

Process finished with exit code 0
```

```
Choose a number
1
{id=1, fName='Renzo', lName='Cabarios', age=20, phoneNum='123342234567', sssNum='1234', pagibigNum='1234', philHealthNum='1234'}
{weeklySalary=5000.0}
{monthlySalary=20000.0}
{pension=3000.0, SSS='400.0', Pagibig='200.0', PhilHealth=200.0, Tax='1500.0', Total Deduction='5300.0', Net Salary='14700.0'}

Process finished with exit code 0
```