LAPORAN PRAKTIKUM PBO Polymorphism



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1. 7.1

• SS akhir program

"C:\Program Files\Java\jdk-11.0.12\bin\java. Neigh Process finished with exit code 0

"C:\Program Files\Java\jdk-11.0.12\b Meow Process finished with exit code 0

2. 7.2

• SS akhir program

```
"C:\Program Files\Java\jdk-11.0.12\"
a: 10
a and b: 10,20
double a:5.5
0/P: 30.25

Process finished with exit code 0
```

3. 7.3

• SS akhir program

Name: Sam Name: Diane Address: 123 Main Line Address: 678 Fifth Ave. Phone: 555-0469 Phone: 555-0690 Social Security Number: 123-45-6789 Social Security Number: 958-47-3625 Paid: 2923.07 Current hours: 40 Paid: 422.0 Name: Carla Address: 456 off Line Name: Norm Phone: 555-0101 Address: 987 Suds Blvd. Phone: 555-8374 Paid: 1246.15 Thanks! Name: Woody Address: 789 Off Rocker Name: Cliff Phone: 555-0000 Address: 321 Duds Lane Social Security Number: 010-20-3040 Phone: 555-7282 Paid: 1169.23 Thanks!

- Constraint Commission Class
 - o It extends the Hourly class.

```
public class Commission extends Hourly
```

o It has two instance variables (in addition to those inherited): one is the total sales the employee has made (type double) and the second is the commission rate for the employee (the commission rate will be type double and will represent the percent (in decimal form) commission the employee earns on sales (so .2 would mean the employee earns 20% commission on sales)).

```
double total_sales;
double commission_rate;
```

 The constructor takes 6 parameters: the first 5 are the same as for Hourly (name, address, phone number, social security number, hourly pay rate) and the 6th is the commission rate for the employee. The constructor should call the constructor of the parent class with the first 5 parameters then use the 6th to set the commission rate.

 One additional method is needed: public void addSales (double totalSales) that adds the parameter to the instance variable representing total sales.

```
public void addSales(double total_sales){
   this.total_sales = total_sales;
}
```

 The pay method must call the pay method of the parent class to compute the pay for hours worked then add to that the pay from commission on sales. (See the pay method in the Executive class.) The total sales should be set back to 0 (note: you don't need to set the hoursWorked back to 0—why not?).

```
public double pay(){
    return super.pay() + commission_rate;
}
```

 The toString method needs to call the toString method of the parent class then add the total sales to that.

```
public String toString(){
    return super.toString() + " , total sales is " + total_sales ;
}
```

- Uodate Staff class
 - Increase the size of the array to 8.

```
staffList = new StaffMember[8];
```

 Add two commissioned employees to the staffList—make up your own names, addresses, phone numbers and social security numbers. Have one of the employees earn \$6.25 per hour and 20% commission and the other one earn \$9.75 per hour and 15% commission.

```
staffList[6] = new Commission( eName: "Dudedu", eAddress: "567 Newyork Street", ePhone: "123-321", socSecNumber: "123-45-6788", rate: 6.25, commission_rate: 6.25*0.2); staffList[7] = new Commission( eName: "John", eAddress: "123 Swiss Street", ePhone: "111-1234", socSecNumber: "987-54-4321", rate: 9.75, commission_rate: 9.75*0.15);
```

• For the first additional employee you added, put the hours worked at 35 and the total sales \$400; for the second, put the hours at 40 and the sales at \$950.

```
((Commission)staffList[6]).addHours ( moreHours: 35);
((Commission)staffList[6]).addSales( total_sales: 400);
((Commission)staffList[7]).addHours ( moreHours: 40);
((Commission)staffList[7]).addSales( total_sales: 950);
```