

JAVA ASSIGNMENT Session – 8
Anshuman Kumar
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package InheritanceAssignment;
import java.util.Scanner;
class Employee {
    int hrs, rate;
    String name;
    Employee(){}
    Employee(int hrs, int rate, String name) {
        this.hrs = hrs;
        this.rate = rate;
        this.name = name;
    }
    Employee(String name){
        this.name=name;
    }
    void computeSalary() {
        System.out.println("Salary is" + " " + hrs * rate);
    }
    public String toString(){
        return ("Hrs is: "+hrs+" "+"rate is: "+rate+" "+"Name is: "+name);
    }
}
class Manager extends Employee{
    int fixedSalary,incentives;
    Manager(){}
    Manager(String name,int fixedSalary,int incentives){
        super(name);
        this.fixedSalary=fixedSalary;
        this.incentives=incentives;
    }
    @Override
    void computeSalary() {
        int salary=fixedSalary+incentives;
        System.out.println("Salary is: "+salary);
    }
    public String toString(){
        return "Name is: "+name+" "+"fixedSalary is: "+fixedSalary+" "+"Incentives are:
"+incentives;
    }
}
class WageEmployee extends Employee{
    WageEmployee(int hrs,int rate,String name){
        super(hrs,rate,name);
    }
    WageEmployee(){}
    @Override
    void computeSalary() {
```

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        System.out.println("Salary is"+" "+hrs*rate);
    }
    public String toString(){
        return ("Hrs is: "+hrs+" "+rate is: "+rate+" "+Name is: "+name);
    }
}
class SalesPerson extends WageEmployee{
    int sales,commission;
    SalesPerson(){}
    SalesPerson(int hrs,int rate,String name,int sales,int commission){
        super(hrs,rate,name);
        this.sales=sales;
        this.commission=commission;
    }
    @Override
    void computeSalary(){
        int salary=hrs*rate+sales+commission;
        System.out.println("Salary is"+" "+salary);
    }
    public String toString(){
        return "Hrs is: "+hrs+" "+rate is: "+rate+" "+Name is: "+name+" "+sales is:
"+sales+" "+Commission is: "+commission;
    }
}
class TestEmployee{
    void print(Employee[] arr){
        for(int i=0;i<arr.length;i++){
            System.out.println(arr[i].toString());
        }
    }
}
public class Ques_1 {
    public static void main(String[] args) {
        Scanner inp=new Scanner(System.in);
        System.out.println("How many Employees: ");
        int n=inp.nextInt();
        Employee[] arr=new Employee[n];
        for(int i=0;i<n;i++){
            System.out.println("manager/wage/sales ?");
            String category= inp.next();
            if(category.equals("manager")){
                System.out.println("Enter name,fixedsalary,incentives");
                String name=inp.next();
                int fixedsalary=inp.nextInt();
                int incentives= inp.nextInt();
                Manager obj_m=new Manager(name,fixedsalary,incentives);
                arr[i]=obj_m;
                obj_m.computeSalary();
                System.out.println(obj_m.toString());
            }
            else if(category.equals("sales")){

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        System.out.println("Enter hrs,rate,name,sales,commission ");
        int hrs=inp.nextInt();
        int rate=inp.nextInt();
        String name=inp.next();
        int sales=inp.nextInt();
        int commission=inp.nextInt();
        SalesPerson obj_s=new SalesPerson(hrs,rate,name,sales,commission);
        arr[i]=obj_s;
        obj_s.computeSalary();
        System.out.println(obj_s.toString());
    }
    else{
        System.out.println("Enter hrs,rate,name");
        int hrs=inp.nextInt();
        int rate=inp.nextInt();
        String name=inp.next();
        WageEmployee obj_w=new WageEmployee(hrs,rate,name);
        arr[i]=obj_w;
        obj_w.computeSalary();
        System.out.println(obj_w.toString());
    }
}
TestEmployee obj_t=new TestEmployee();
obj_t.print(arr);
}
}

```

OUTPUT

How many Employees:

3

manager/wage/sales ?

manager

Enter name,fixedsalary,incentives

Harvey

200000

48000

Salary is: 248000

Name is: Harvey fixedSalary is: 200000 Incentives are: 48000

manager/wage/sales ?

sales

Enter hrs,rate,name,sales,commission

23

430

Mike

300

2390

Salary is 12580

Hrs is: 23 rate is: 430 Name is: Mike sales is: 300 Commission is: 2390

manager/wage/sales ?

wage

Enter hrs,rate,name

430

23

Alex

Salary is 9890

Hrs is: 430 rate is: 23 Name is: Alex

Name is: Harvey fixedSalary is: 200000 Incentives are: 48000

Hrs is: 23 rate is: 430 Name is: Mike sales is: 300 Commission is: 2390

Hrs is: 430 rate is: 23 Name is: Alex