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package july;
import java.util.*;

class emp{
    double id;
    String name,desg;
    emp(double id,String name,String desg){
        this.id=id;
        this.name=name;
        this.desg=desg;
    }
}

class PartTime extends emp{
    double hr_rate;
    int n_hr;
    PartTime(double id,String name,String desg,double hr_rate,int n_hr){
        super(id,name,desg);
        this.hr_rate=hr_rate;
        this.n_hr=n_hr;
    }
    void display() {
        System.out.println("ID "+id+"\nName "+name+"\nDesignation "+desg+"\nNo of hr "+n_hr+"\nHr rate "+hr_rate+"\nSalary "+(n_hr*hr_rate));
    }
}

class FullTime extends emp{
    double day_rate;
    int n_day;
    FullTime(double id,String name,String desg,double day_rate,int n_day){
        super(id,name,desg);
        this.day_rate=day_rate;
        this.n_day=n_day;
    }
    void display() {
        System.out.println("ID "+id+"\nName "+name+"\nDesignation "+desg+"\nNo of hr "+n_day+"\nHr rate "+day_rate+"\nSalary "+(n_day*day_rate));
    }
}

class vehicle{
    double price;
    String company;
    vehicle(double price,String company){
        this.price=price;
        this.company=company;
    }
}

class LightVehicle extends vehicle{
    double mileage;
    LightVehicle(double price,String company,double mileage){
        super(price,company);
        this.mileage=mileage;
    }
    void display() {
        System.out.println("Company "+company+"\nPrice "+price+"\nMileage "+mileage);
    }
}

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    }
}

class HeavyVehicle extends vehicle{
    double capacity;
    HeavyVehicle(double price,String company,double capacity){
        super(price,company);
        this.capacity=capacity;
    }
    void display() {
        System.out.println("Company "+company+"\nPrice
"+price+"\nCapacity in tons "+capacity);
    }
}

class movie{
    String title;
    int amt,ticket;
    movie(String title,int amt,int ticket){
        this.ticket=ticket;
        this.title=title;
        this.amt=amt;
    }
}

class taxedMovie extends movie{
    double tax,finalamt;
    taxedMovie(String title,int amt,int ticket,double tax){
        super(title,amt,ticket);
        this.tax=tax;
    }
    void ticketamt() {
        finalamt=amt+(amt*tax);
        System.out.println("Final Amount "+finalamt);
    }
}

class taxFreeMovie extends movie{
    double finalamt;
    taxFreeMovie(String title,int amt,int ticket){
        super(title,amt,ticket);
    }
    void ticketamt() {
        System.out.println("Final Amount "+finalamt);
    }
}

class continent{
    String contienetName;
    continent(String name){
        this.contienetName=name;
    }
}

class country extends continent{
    String countryname;
    country(String continentName,String countryName){
        super(continentName);
        this.countryname=countryName;
    }
}

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class state extends country{
    String stateName;
    state(String continentName,String countryName,String stateName){
        super(continentName,countryName);
        this.stateName=stateName;
    }
}

class place extends state{
    String name;
    place(String continentName,String countryName,String stateName,String
name){
        super(continentName,countryName,stateName);
        this.name=name;
    }
    void display() {
        System.out.println("Continent Name "+contienetName+"\nCountry
Name "+countryname+"\nState Name "+stateName+"\nPlace Name "+name);
    }
}

class order{
    int id;
    String desc;
    order(int id,String desc){
        this.id=id;
        this.desc=desc;
    }
}

class PurchaseOrder extends order{
    String vendorName;
    PurchaseOrder(int id,String desc,String vendorName){
        super(id,desc);
        this.vendorName=vendorName;
    }
    void display() {
        System.out.println("ID "+id+"\nDescription "+desc+"\nVendor
Name"+vendorName);
    }
}

class SalesOrder extends order{
    String customerName;
    SalesOrder(int id,String desc,String customerName){
        super(id,desc);
        this.customerName=customerName;
    }
    void display() {
        System.out.println("ID "+id+"\nDescription "+desc+"\nCustomer
Name"+customerName);
    }
}

public class July_24 {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        /*int ch,n_hr,id;
        double hr_rate;

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        String name, desg;
        do {
            System.out.println("1.Part Time Employee\n2.Full Time
Employee\n3.Exit");
            ch=sc.nextInt();
            switch(ch) {
                case 1:
                    System.out.println("Enter id, name, designation, hour
rate, no of hours");
                    id=sc.nextInt();
                    name=sc.next();
                    desg=sc.next();
                    hr_rate=sc.nextDouble();
                    n_hr=sc.nextInt();
                    PartTime p=new PartTime(id,name,desg,hr_rate,n_hr);
                    p.display();
                    break;
                case 2:
                    System.out.println("Enter id, name, designation, hour
rate, no of hours");
                    id=sc.nextInt();
                    name=sc.next();
                    desg=sc.next();
                    hr_rate=sc.nextDouble();
                    n_hr=sc.nextInt();
                    FullTime f=new FullTime(id,name,desg,hr_rate,n_hr);
                    f.display();
                    break;
                case 3:
                    System.exit(1);
                    break;
                default:
                    System.out.println("Enter valid option");
                    break;
            }
        }while(ch!=3);

        double price;
        String name;
        int ch,n,i;
        do {
            System.out.println("1.Heavy Motor Vehicle\n2.Light Motor
Vehicle\n3.Exit");
            ch=sc.nextInt();
            switch(ch) {
                case 1:
                    System.out.println("Enter how many vehicles");
                    n=sc.nextInt();
                    HeavyVehicle []h=new HeavyVehicle[n];
                    for(i=0;i<n;i++) {
                        System.out.println("Enter name, price,
capacity in tons");
                        name=sc.next();
                        price=sc.nextDouble();
                        double capacity=sc.nextDouble();
                        h[i]=new HeavyVehicle(price,name,capacity);
                    }
                    for(i=0;i<n;i++)
                        h[i].display();
                    break;
                case 2:

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        System.out.println("Enter how many vehicles");
        n=sc.nextInt();
        LightVehicle []l=new LightVehicle[n];
        for(i=0;i<n;i++) {
            System.out.println("Enter name, price,
mileage");

            name=sc.next();
            price=sc.nextDouble();
            double mileage=sc.nextDouble();
            l[i]=new LightVehicle(price,name,mileage);
        }
        for(i=0;i<n;i++)
            l[i].display();
        break;
    case 3:
        System.exit(1);
        break;
    default:
        System.out.println("Enter valid option");
        break;
    }
}while(ch!=3);

String title;
double tax;
int tickets,amt;
System.out.println("1.Taxed Movie\n2.Tax Free Movie");
int ch=sc.nextInt();
switch(ch) {
    case 1:
        System.out.println("Enter title, ticket amount,no of
tickets, tax(in percentage)");
        title=sc.next();
        amt=sc.nextInt();
        tickets=sc.nextInt();
        tax=sc.nextDouble();
        taxedMovie tm=new taxedMovie(title,amt,tickets,tax);
        tm.ticketamt();
        break;
    case 2:
        System.out.println("Enter title, ticket amount,no of
tickets");
        title=sc.next();
        amt=sc.nextInt();
        tickets=sc.nextInt();
        taxFreeMovie tfm=new taxFreeMovie(title,amt,tickets);
        tfm.ticketamt();
        break;
    default:
        System.out.println("Enter valid option");
        break;
}

String continentName,countryName,stateName,name;
System.out.println("Enter Continent Name,Country Name,State
Name, Place Name");
continentName=sc.next();
countryName=sc.next();
stateName=sc.next();
name=sc.next();
place p=new place(continentName,countryName,stateName,name);

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        p.display();*/

        int id,i;
        String desc,vendorName,customerName;
        PurchaseOrder p[]=new PurchaseOrder[3];
        System.out.println("Purchase Order");
        for(i=0;i<3;i++) {
            System.out.println("Enter id, description, vendor name");
            id=sc.nextInt();
            desc=sc.next();
            vendorName=sc.next();
            p[i]=new PurchaseOrder(id,desc,vendorName);
        }
        for(i=0;i<3;i++)
            p[i].display();
        SalesOrder s[]=new SalesOrder[3];
        System.out.println("Sales Order");
        for(i=0;i<3;i++) {
            System.out.println("Enter id, description, customer
name");

            id=sc.nextInt();
            desc=sc.next();
            customerName=sc.next();
            s[i]=new SalesOrder(id,desc,customerName);
        }
        for(i=0;i<3;i++)
            s[i].display();

    }

}

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