```
public class CarElements {
private String code;
private double price;
public CarElements(String c, double p) {
code=c;
price=p;
public CarElements (CarElements E) {
code=E.code;
price=E.price;
public void display() {
System.out.println(" Car Code: "+ code+" Car Price: "+
price);
public double getPrice() { return price; }
}// end class
public class Car {
private String name;
private String id;
private int seatNb;
private int year;
private int ncel;
private CarElements[] elist;
public Car(String n, String d, int s, int y, int size) {
name=n;
id=d;
seatNb=s;
year=y;
ncel=0;
elist= new CarElements[size];
}
public String getname() { return name; }
public String getid() { return id; }
```

```
public int getyear() { return year;}
public void display() {
System.out.println(" name: "+name+" id: " + id + " seatNb:
" + seatNb + " year: " + year + " ncel : " + ncel);
System.out.println("List of elemnts:");
for (int i=0;i<ncel;i++)[i].display();</pre>
}
public boolean isFull() { return ncel==elist.length;}
public void copyCar(Car ca) {
name=ca.name;
id=ca.id;
seatNb=ca.seatNb;
year=ca.year;
ncel=ca.ncel;
elist= new CarElements[ca.elist.length];
for(int i=0; i<ncel; i++)</pre>
elist[i] = new CarElements(ca.elist[i]);
}
public boolean addElement(CarElements el){
if(isFull()) return false;
elist[ncel++] = new CarElements(el);
return true;
}
public double PriceCar() {
double sum=0;
for(int i=0; i<ncel;i++)</pre>
sum = sum + elist[i].getPrice();
return sum;
}
}// end class
```

```
public class KsuCars {
private Car[] carlist;
private int nbc;
public KsuCars(int size) {
carlist = new Car[size];
nbc=0;
}
public boolean addCar(Car c) {
if(nbc==carlist.length) return false;
carlist[nbc++]=c;
return true;
public void display() {
for(int i=0; i<nbc;i++)</pre>
carlist[i].display();
}
public boolean isEmpty() { return nbc==0;}
public int searchCar(String ce) {
for(int i=0; i< nbc;i++)</pre>
if(carlist[i].getname().equals(ce))
return i:
return -1;
}
public Car getCar(String nm) {
for(int i=0; i< nbc;i++)</pre>
if(carlist[i].getid().equals(nm))
return carlist[i];
return null;
}
```

```
public double AveragePrice(int y)
double s = 0;
for(int i=0; i< nbc;i++)</pre>
if(carlist[i].getyear()==y)
s= s + carlist[i].PriceCar();
return s/nbc;
}
public boolean removeCar(String s) {
int inx= searchCar(s);
if(inx!=-1){
for (int i=inx; i<nbc-1; i++)</pre>
carlist[i]=carlist[i+1];
carlist[--nbc]=null;
return true;
return false;
}// end class
```