UML Diagram and Related Class Definition for Car Example

CarDriver

Main (args: String[ ]) : void

Customer

- name : String
- parts : float
- labor : float
- + getName( ) : String
- + getParts( ): float
- + getLabor( ) : float
- + setName(String player) : void
- + setParts(float cparts) : void
- + setLabor(float clabor) : void
- + calcTotal( ) : float
- + toString( ) : String

(+ represents the public modifier and – represents the private modifier)

Instance Data Items

Accessors

Helper Method

2 Constructors

Mutators

toString( ) method

```java
1   import java.text.DecimalFormat;
2
3   public class Customer
4   {   private String name;
5       private float parts;
6       private float labor;
7
8       public Customer(String cname, float cparts, float clabor)
9       {   name = cname;
10          if (cparts > 0) parts = cparts;
11          else parts = 0.0f;
12          if (clabor > 0) labor = clabor;
13          else labor = 0.0f;         }
14
15      public Customer()
16      {   name = "";
17          parts = 0.0F;
18          labor = 0.0F;    }
19
20      public String getName()
21      {   return name;      }
22      public float getParts()
23      {   return parts;    }
24      public float getLabor()
25      {   return labor;     }
26
27      public void setName(String cname)
28      {   if(! cname.equals(""))
29              name = cname;         }
30      public void setParts(float cparts)
31      {   if (cparts > 0)
32              parts = cparts;       }
33      public void setLabor(float clabor)
34      {   if (clabor > 0)
35              labor = clabor;       }
36      public float calcTotal()
37      {   return (parts + labor);       }
38
39      public String toString()
40      {   DecimalFormat fmt = new DecimalFormat ("$#,##0.00");
41          return "Work for " + name + ": Parts: " + fmt.format(parts) + " Labor: " + fmt.format(labor);    }
42  }
```