<<Java Class>> proxyAutomobile (adapter)

- + mAutoMap: LinkedHashMap<String,Automobile>

- + proxyAutomobile()
- + BuildAuto(String):void
- + printAuto(String):void
- + updateOptionSetName(String,String,String):void
- + updateOptionPrice(String,String,String,float):void
- + fix(int):void

<<Java Class>> BuildAuto (adapter)

- + BuildAuto()

<<Java Interface>> CreateAuto (adapter)

- + BuildAuto(String):void
- + printAuto(String):void

<<Java Interface>> UpdateAuto (adapter)

- + updateOptionSetName(String,String,String):void
- + updateOptionPrice(String,String,String,float):void

<<Java Interface>> FixAuto (adapter)

- + fix(int):void

<<Java Class>> AutoException (exception)

- + errorMsg:String
- + errorCode:int

- + AutoException(EnumAutoErrorCode ,String)
- + getErrorCode():int
- + getErrorMsg():String
- + logging(String):void
- + fix(int):String
- + printproblem():String

<<Java Enumeration>> EnumAtuoErrorCode (exception)

- +MISSING_PRICE: EnumAutoErrorCode
- + MISSING_OPTION_DATA:EnumAutoErrorCode
- + MISSING_OPTIONSET_DATA:EnumAutoErrorCode
- + MISSING_FILE_NAME:EnumAutoErrorCode
- + HAVEING_NEGATIVE_BASEPRICE:EnumAutoErrorCode
- + id: int
- + msg: String

- + EnumAutoErrorCode(int,String)
- + getid():int
- + getmsg():String

<<Java Class>> Fix1to100 (exception)

- + Fix1to100()
- + fix4(int):String

<<Java Class>> Util (util)

- + Util()
- + buildAutoObject(String):Automobile
- + serializeAuto(Automobile, String):void
- + deserializeAuto(String):Automobile
- + loadOption(BufferedReader, Automobile,int):void
- + loadOption(BufferedReader,Automobile,int):void

<<Java Class>> Automobile (model)

- + model:String
- + make:String
- + baseprce:float

- + Automobile()
- + Automobile(String,String,float)
- + getMake():String
- + getModel():String
- + getPrice():double
- + getOptionSet(int):OptionSet
- + getOptionSet():List<OptionSet>
- + getOptionChoicePrice(String):float
- + getOptionChoice(String):String
- + setModel(Stirng):void
- + setMake(String):void
- +setBasePrice(float):void
- + setOptionSet(List<String>):void
- + setOption(String,List<String>,List<Float>):void
- + setOption(int,List<String>,List<Float>):void
- + setOptionChoice(String,String):void
- + FindOptionSet(String):OptionSet
- + FindOptionSetIdx(String):int
- + FindOption(String,String):Option
- + UpdateOption(String,String,String,float):boolean
- + UpdateOptionSetName(String,String):boolean
- + DeleteOptionSet(String):boolean
- + DeleteOptionSet(int):boolean
- + DeleteOption(String,String):boolean
- + DeleteOption(int,int):boolean
- + print():void
- + printChoice():void
- + printOptionSet(int):void
- + getTotalPrice():float

opset

<<Java Class>> OptionSet (model)

- + name:String

- + OptionSet(String,int)
- + getName():String
- + getOption(int):Option
- + getOption():ArrayList<Option>
- + getOptionChoice():Option
- + setName(String):void
- + setChoice(String):void
- + setOption(ArrayList<Option>):void
- + findOption(String):Option
- + findOptionIdx(String)int
- + updateOptionSize(int):void
- + updateOption(String,String,float):boolean
- + deleteOption(String):boolean
- + deleteOption(int):boolean
- + print():void

optionChoice   -opt

<<Java Class>> Option (model)

- + name: String
- + price:float

- + Option(String,float)
- + getName():String
- + getPrice():float
- + setName(String):void
- + setPrice(float):void