1/31/2017 Assig4

## <<interface>> BarcodelO

+scan(boolean) +translateImageToTex(boolean) +displayTextToConsole():void +displayImageToConsole():void

## **Barcodelmage implements Cloneable**

+MAX\_HEIGHT:int +MAX\_WIDTH:int -image\_data:boolean

+Barcodelmage()
+setPixel(int row, int col, boolean value):boolean
+getPixel(int row, int col):boolean
+clone():Object
+displayToConsole():void

## DataMatrix implements BarcodelO

+BLACK CHAR:char +WHITE CHAR:char -image:BarcodeImage -text:String -actualHeight:int -actualWidth:int

- +scan(BarcodeImage barcode):boolean
- -cleanImage():void
- -movePixelToLowerLeft(int row, int col, int heightOffset,int widthOffset):void
- -computeSignalHeight():int
- -computeSignalWidth():int
- -getActualHeight():int
- -getActualWidth():int
- -displayImageToConsole():void
- -printValues(int row):void
- -translateImageToText():boolean
- -getASCII(int col):int
- -displayTextToConsole():void
- -horizontalLines():void
- -readText(String text):boolean
- -generateImageFromText():boolean
- -creatClosedLimitationLine():void