Lab Goal: This lab was designed to teach you more object oriented programming and how to write a very simple game, using interfaces, abstract classes, and inheritance.

Lab Description: Complete the code for the abstract class Drawable located in Drawable.java. Drawable will be extended to make a Piece class. Piece will store name and location information for a game piece that could be used in a board game. Use PieceTester.java to test the completed Piece class.

```
public interface Locatable
 public void setPos( int x, int y);
 public void setX( int x );
                                                                                 Files Needed ::
 public void setY( int y );
                                                                                 Locatable.java
 public int getX();
                                                                                 Drawable.java
 public int getY();
                                                                                 Nameable.java
                                                                                 Piece.java
                                                                                 PieceTester.java
public abstract class Drawable implements Locatable
  private int xPos;
  private int yPos;
  private int width:
  private int height;
                                      Sample Output ( PieceTester.java )
                                      5 5 5 5 empty java.awt.Color[r=0,g=0,b=255]
                                      5 5 5 5 red checker java.awt.Color[r=0,g=0,b=255]
  //constructors
                                      100 100 5 5 the shoe from a money game
                                      java.awt.Color[r=0,g=0,b=255]
  //set methods
                                      200 200 20 20 bishop java.awt.Color[r=255,g=255,b=255]
  //get methods
  public abstract void draw (Graphics window);
   //toString
}
public interface Nameable
  public void setName(String n);
  public String getName();
public class Piece extends Drawable implements Nameable
  private String name;
  private Color color;
  //constructors
  //sets and gets
  public void draw(Graphics window)
       window.setFont(new Font("TAHOMA", Font.BOLD, 28));
       window.setColor(getColor());
```

window.drawRect(getX(),getY(),getWidth(),getHeight()); window.drawString(getName(),getX()+10,getY()+30);

//toString