```
package gobalkrishnan_v_18_06_1995.color;

public class gkiHSV_to_RGB {
   int red,green,blue;
   double hue,saturation,value,c,x,m,r,g,b;
   private double c_255_to_1(int i){
      return i/255d;
   }
   private int c_1_to_255(double i){
      return  (int) Math.round(i*255);
   }

   public void setHSL(double hue,double saturation,double light){
      setHue(hue);
      setSaturation(saturation);
      setLight(light);
   }

   private double mag(double d){
      return Math.sqrt(d*d);
   }

   public void setHue(double h){
      hue=h;
      process();

   }
   public void setSaturation(double s){
      saturation=s;
      process();
   }

   public void setLight(double a){
      value=a;
      process();
   }
   private void process(){
      c = value*saturation;
      m = value - c;
      x = c*(1-mag(((hue/60d)%2)-1));

      if(hue>=0 && hue<60){
         r=c;
         g=x;
         b=0;
      }
      if(hue>=60 && hue<120){
```

```
            r=x;
            g=c;
            b=0;
        }
        if(hue>=120 && hue<180){
            r=0;
            g=c;
            b=x;
        }
        if(hue>=180 && hue<240){
            r=0;
            g=x;
            b=c;
        }
        if(hue>=240 && hue<300){
            r=x;
            g=0;
            b=c;
        }
         if(hue>=300 && hue<360){
            r=c;
            g=0;
            b=x;
        }

         red= c_1_to_255(r+m);
         green=c_1_to_255(g+m);
         blue=c_1_to_255(b+m);
    }
    @Override
    public String toString() {
        return "gkiHSV_to_RGB [red=" + red + ", green=" + green + ", blue=" + blue
                + "]";
    }


}
```