

Durwankur Naik
I4214
LP – III (B4)

Assignment No. 06

Code:

```
import java.awt.*;
import java.awt.image.BufferedImage;
import java.io.*;
import javax.imageio.ImageIO;
public class Exatraction{
    private static BufferedImage original,answer;
    public static void main(String[] args) throws IOException{
        File original_f=new File("D:\\BEIT\\ISR LAB\\sample java file\\as6.jpg");
        original = ImageIO.read(original_f);
        answer=imageHistogram(original);
        writelimage("featureExtraction");
    }
    private static void writelimage(String output) throws IOException {
        // File file = new File(output+".jpg");
        File file = new File(output+".jpg");
        ImageIO.write(answer, "jpg", file);
    }
    private static int colorToRGB(int alpha, int red, int green, int blue) {
        int newPixel = 0;
        newPixel += alpha; newPixel = newPixel << 8;
        newPixel += red; newPixel = newPixel << 8;
        newPixel += green; newPixel = newPixel << 8;
        newPixel += blue;
        return newPixel;
    }
    public static BufferedImage imageHistogram(BufferedImage input) {
        BufferedImage redGraph = new BufferedImage(input.getWidth(),input.getHeight(),input.getType());
        for(int i=0; i<input.getWidth(); i++)
        {
            for(int j=0; j<input.getHeight(); j++)
            {
                int alpha =new Color(input.getRGB (i, j)).getAlpha();
                int blue = new Color(input.getRGB (i, j)).getBlue();
                redGraph.setRGB(i, j, colorToRGB(alpha, 0,blue));
            }
        }
        return redGraph;
    }
}
```



OUTPUT:

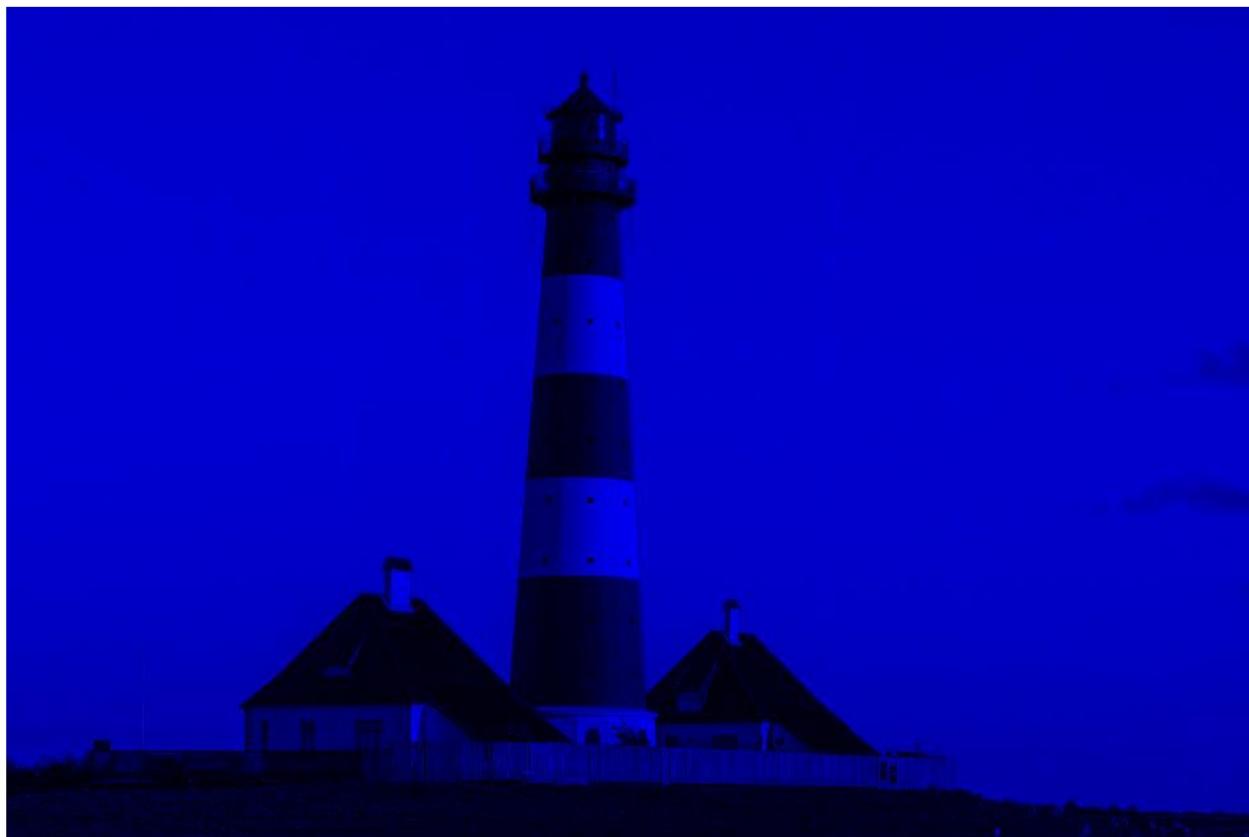
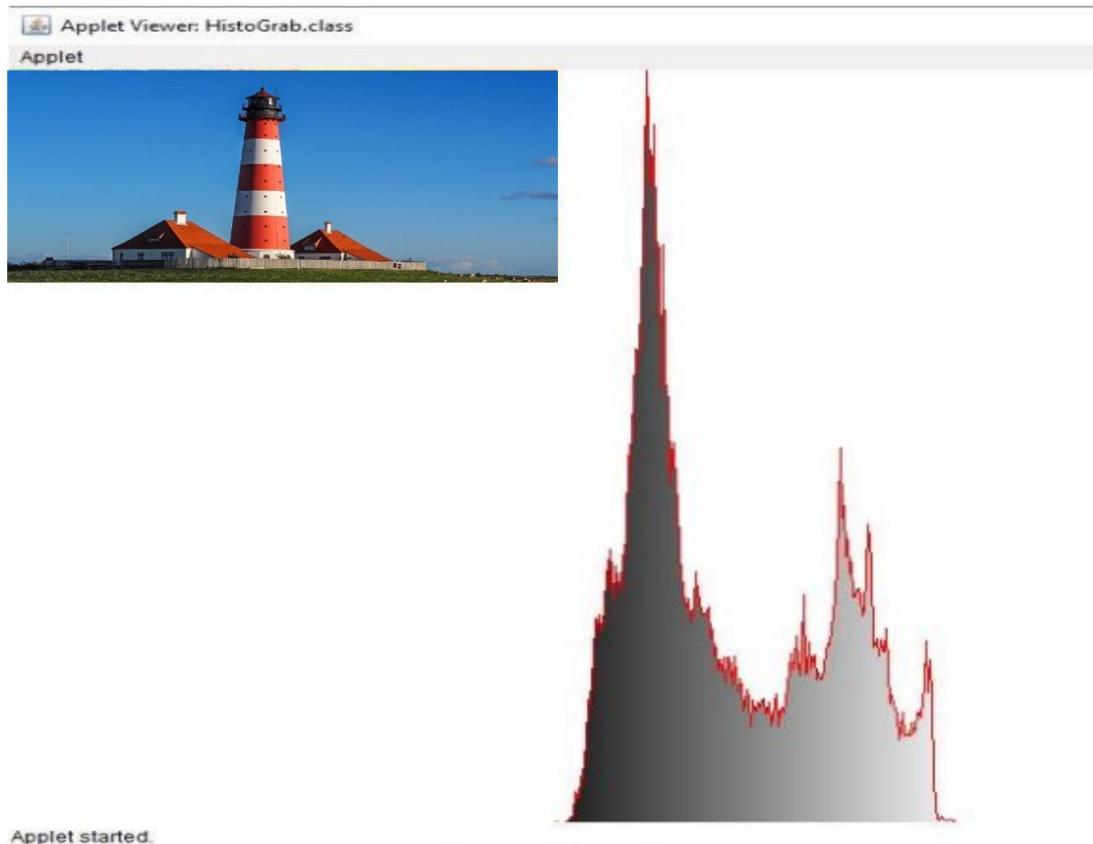


Image:

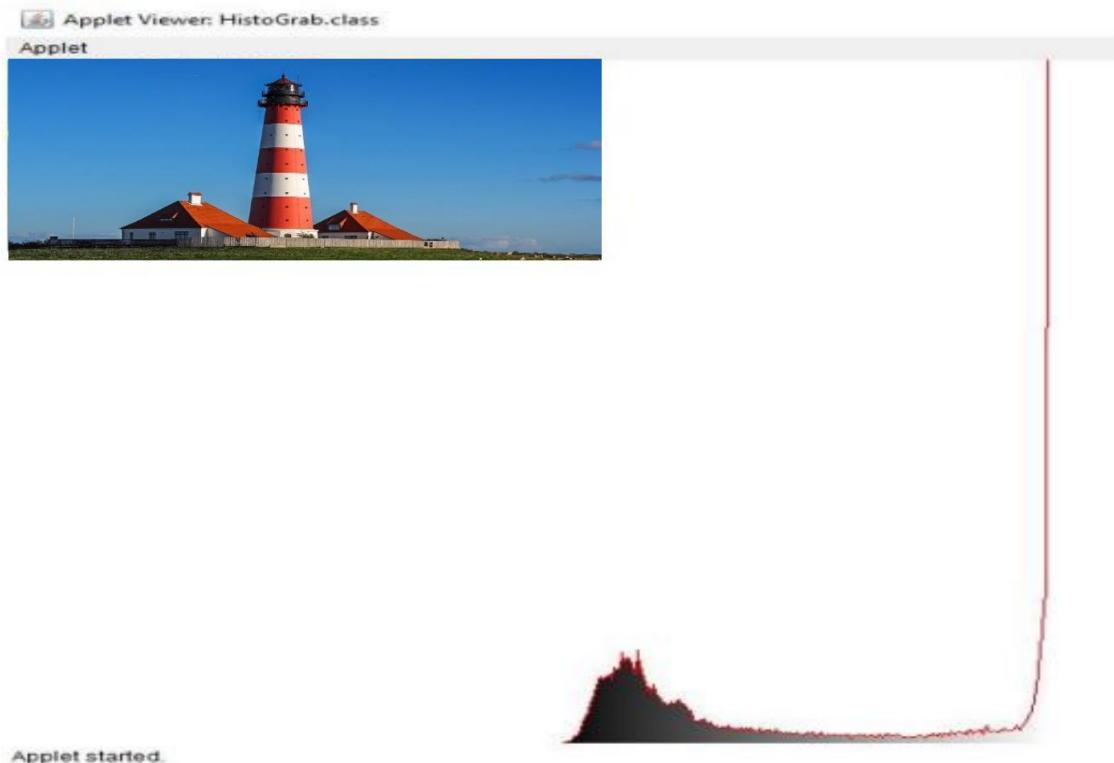


Output:

Histogram for combination of red, green, blue model



Histogram for combination of red model



Histogram for combination of green model

