Please submit the two reports for the two problems called out below as two separate PDF files.

1. Do Project 06-03, “Color Image Enhancement by Histogram Processing” from the textbook project list. Document the project in the usual project report format.

   "PROJECT 06-03
   **Color Image Enhancement by Histogram Processing**
   (a) Download the dark-stream color picture in Fig. 6.35 from the book web site. Convert the image to RGB (see comments at the beginning of Project 06-01). Histogram-equalize the R, G, and B images separately using the histogram-equalization program from Project 03-02 and convert the image back to tif format.

   (b) Form an average histogram from the three histograms in (a) and use it as the basis to obtain a single histogram equalization intensity transformation function. Apply this function to the R, G, and B components individually, and convert the results to jpg. Compare and explain the differences in the tif images in (a) and (b)."

   Be sure your report discusses the color format conversions (between TIF, RGB, and JPEG, as indicated in reference to project 06-01) and how those were done.

2. Do Project 06-04, “Color Image Segmentation” from the textbook project list. Document the project in the usual project report format.

   "PROJECT 06-04
   **Color Image Segmentation**
   Download Fig. 6.28(b) from the book web site and duplicate Example 6.15, but segment instead the darkest regions in the image."