BIL – 421 IMAGE PROCESSING PROGRAMMING ASSIGNMENT # 3

Due Date: May 23, 2014 till 23:59 pm

Submission: Moodle Upload

Problem) Web-Safe Colors

In order to complete this homework, you need to generate the RGB component images for a given tif

color image. For example, MATLAB's Image Processing Toolbox can do this, but you can also do it

with image editing programs like Adobe's Photo-Shop or Corel's PhotoPaint. It is acceptable for the

purposes of this project to convert an image to RGB (and back) manually.

(a) Write a MATLAB program that converts an arbitrary RGB color image to a web-safe RGB image

(see Fig. 6.10 for a definition of web-safe colors).

(b) Download the image in Fig. 6.8 from the book web site and convert it to a web-safe RGB color

image. Figure 6.8 is given in tif format, so convert your result back to tif. Explain the differences

between your result and Fig. 6.8

NOTES:

1) Make the necessary research on web-safe RGB colors.

2) Give explanations / comments about your source code in Turkish.

3) Give meaningful variable names.

4) Submit your source files (.m files) only. Do not submit your input / output files (images)