ADIPCV-2020 ASSIGNMENT-4
/* Dominant Color transfer */

A dominant color of a segment or region of an image is the maximal
mode of density function in the 2-D chromaticity space (hue and
saturation or their equivalent entities in a color space) within
that region.

(a) Write a function which estimates the dominant color given an
axis-parallel rectangular region of a color image. 20
(b) Read a source image and a target image, and display them. 10
(c) Interactively specify a rectangular region on the source image
using a GUI. 10
(d) Show the pixels of dominant colours of the specified region by
marking them white in a separate window.10
(e) Compute the dominant color pixels of the a region of the target
image (selected using GUI) and display them in a separate window.20
(f) Transfer the dominant color of the source region to the target
region and display the end result. 20
(g) Provide your results on the attached images taking one of them
as source and the other as the target image. In particular, you have
to transfer of colours of a flower from a source image to a target
image. 10

Submit your codes, results, a README file for running the codes and
a write-up describing the implementation and observations.

For well organised reporting and coding (Bonus) - 10.

You may implement your programs in C++-OpenCV/MATLAB/ Python with
necessary user's interfaces and visualization of your results and
input.
Please provide a documentation for compiling and running the
programs in a README file. The whole project should be submitted in
a single tar or zip file.