Amr ElNahas 40-9751 T22 DMET Assignment 2 report 10/17/18

- All of the tasks are done in one class named “AssignmentAttempt”
- The code is documented using comments on almost every line
- I used one helper method which was not specified in the interface yet I found it to be necessary to carry out the image blending successfully. This method is name “resize” and it resizes an image to a specified width and height. I used this method to make sure that when blending the two images they are the same width and height.
- The first blended image will be saved as “output image blended.png” and it will contain the result of blending the vegetable image (named “input.png”) and the watermark image (named “text.png”) to the ratio 0.5:0.5.
- The second blended image will be saved as “output image blended2.png” and it will contain the result of blending the vegetable image (named “input.png”) and the watermark image (named “text.png”) to the ratio 0.6:0.4, which, after experimenting with multiple combinations, I have decided is the optimum ratio in which the sample watermark in “text.png” appears vividly over the vegetables in “input.png” yet does not hide it completely.
- The writing for the previous 2 photos is done in the main method and not the instance method, unlike the rest of the photos in which the writing is done in the instance method not the main method. This is because for some reason the interface specifies that the method doing the blending can return the image for us to work with in the main method whereas the other methods do not return anything so everything must be done within them.
- The first level down-sampled video frames will be saved in a folder called “imageSeqDownsampled1” which will contain all the frames found in folder “ImageSeq” in order named “frame0.jpg” to “frame31.jpg” after performing both spatial and temporal 1-level down-sampling.
- The second level down-sampled video frames will be saved in a folder called “imageSeqDownsampled2” which will contain all the frames found in folder “ImageSeq” in order named “frame0.jpg” to “frame31.jpg” after performing both spatial and temporal 2-level down-sampling.
- The first enhanced image will be saved as “first enhancement.png” and it will contain the image “input.png” after adding the value “50” to every colour component in the image.
- The second enhanced image will be saved as “second enhancement.png” and it will contain the image “input.png” after squaring every colour component in the image.
- The third enhanced image will be saved as “third enhancement.png” and it will contain the image “input.png” after square-rooting every colour component in the image.
- There is no output in the console and none of the tasks require a screenshot so none are provided in the report.