Exercise 3

Due: Friday, May 11, 2018

Note:

- Submit your exercises by pushing them to your Github account/repositories
- Use Python
- Use PyCharm or Jupyter Notebook as your choice
- Use OpenCV or Scikit-image as your choice
- Send me an email if you have any difficulty in completing the exercise
 - 1. Download any color image from Internet and save it to your computer
 - 2. Write program to complete the following works:
 - Convert the downloaded image from 1. to a grayscale image
 - Apply Canny Edge detector to the grayscale image with fixed threshold as your choice (https://en.wikipedia.org/wiki/Canny_edge_detector)
 - Write a small application to find the Canny edge detection whose threshold values can be varied using two trackbars
 - 3. Take a break
 - 4. Review the watershed algorithm (https://en.wikipedia.org/wiki/Watershed (image processing))
 - 5. Write program to complete the following works:
 - Download any color image from Internet and save it to your computer
 - o Convert the downloaded image to a grayscale image
 - Apply watershed algorithm to the above image and observe outputs with different parameters

You can refer to the following to understand more about this algorithm: http://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_imgproc/py_watershed/py_watershed.html