



In the name of God

Digital image processing (spring 2020)

Assignment #3

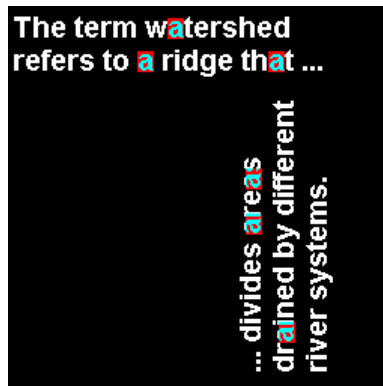
Due date: 25th of Ordibehesht

In this assignment you should find a specified pattern in the image using your recent knowledge of image processing. For this task use the image “text.png” that is available in Matlab image processing toolbox. The pattern that you should find is the letter “a” that there are six of them in this image.

The term watershed
refers to a ridge that ...

... divides areas
drained by different
river systems.

Your result can be something like this:



The term watershed
refers to a ridge that ...
... divides areas
drained by different
river systems.

First find the patterns using spatial domain concepts and then by using frequency domain concepts. Finally compare your results.

You can use any built in functions for this assignment if they just use the things you have learned so far.

Important Notes:

- ❖ Please pay attention to the due date. It will not extend.
- ❖ It is recommended to provide a report for your assignment. It can include your code, your results and a brief explanation of what you have done.
- ❖ The name of the uploading file should be your **Lastname_Firstname**.