Computer Vision HW5 Report

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Execution

> Using Python 3.7

```
$ python hw5.py
```

Results

Subtask	Image	Subtask	Image
(a)		(b)	
(c)		(d)	

Code Explanation

- For all image processing (including read and write Images, accessing each pixels), I use the following libraries:
  - **Python OpenCV library** `cv2`
  - **Python numpy library** `numpy`
- Function `max()` do grayscale dilation, and function `min()` do grayscale erosion. Two functions have same parameters, with the octogonal 3-5-5-5-3 `kernel`, source binary image `img1`, and resulting binary image `img2`.

References

- Dilation (morphology) (https://en.wikipedia.org/wiki/Dilation_(morphology))
- Erosion (morphology) (https://en.wikipedia.org/wiki/Erosion_(morphology))
- Opening (morphology) (https://en.wikipedia.org/wiki/Opening_(morphology))
- Closing (morphology) (https://en.wikipedia.org/wiki/Closing_(morphology))