CSE464
DIGITAL IMAGE PROCESSING
HW4
REPORT

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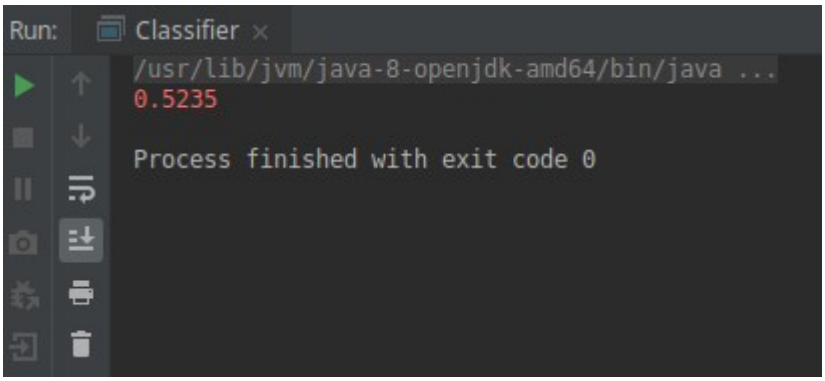
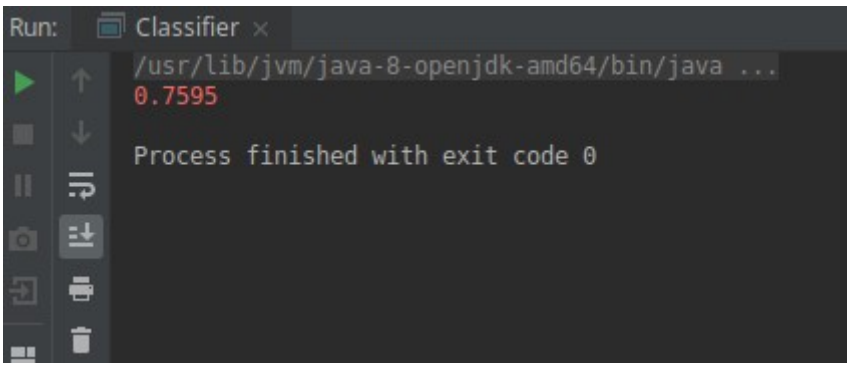
8-bit Grayscale Value

In this part, grayscale value of each pixel is trained and tested. A feature vector with one size is returned in this part.



The Histogram of the 9x9 Window

In this part, histogram value of 9x9 window's center pixel is trained and tested. Feature vector's size is 256, which means each grayscale value has an occurance number.



The Mean and Variance of the 9x9 Window

In this part, mean and variance value of 9x9 window's center pixel is trained and tested. A feature vector with size 2 is returned. Zeroth index is mean and first index is variance.

The Granulometry of the 9x9 Window

In this part, granulometry of 9x9 window’s center pixel is trained and tested. The thing that is done is performing opening on 9x9 window with Gopening.invoke method and 3x3 square matrix. A feature vector with size 81 is returned. It’s a flatten version of 2D image, which is opened.