Image Processing

Prepared by

Sezer Can Ekiz

Codes

```
% Clear workspace
clear all
close all
% Creating an 512x512 black image
image = zeros(512,512);
% Specified number of rectangular
n=8;
% Create rectangular
for i = 1:n
	% Position of rectangular on image
	x = randi([1, 512]);
	y = randi([1, 512]);
	% Width and height of rectangular between 10 and 200
	width = randi([10,200]);
	height = randi([10,200]);
	% Random intensity value between 100 and 255
	intensity = randi([100, 255]);
	% Draw rectangular
	image(y:y+height, x:x+width) = intensity;
end
% Show image
imshow(image, []); title('Homework1__SezerCanEkiz__202011034'); pause(0.5);
```

Description

In this project, I create a black image with intensity value of 0. In this image, a certain number of filled rectangles are drawn. Each rectangle has a randomly chosen intensity value between 100 and 255 , size between 10x10 and 200x200 pixel.

Output