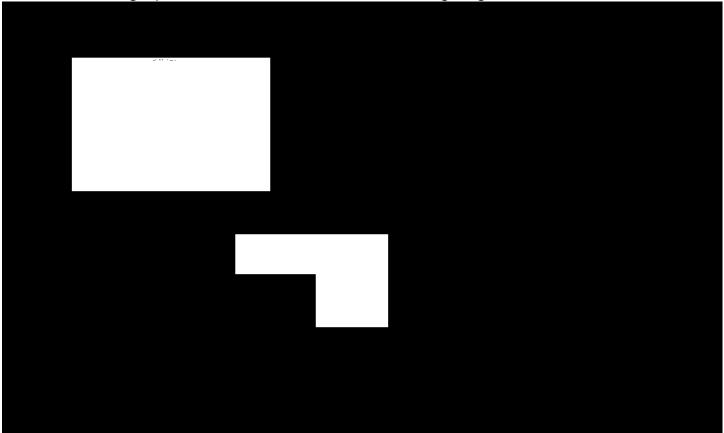# COS 389: HW 12 (20 points)

Create a java program that runs background subtraction by doing the following steps. You can use any of the functions I hav eprovided.

1. In the main, doing the following

   (a) Read in $HW12CVImage1.jpg$ into a $BufferedImage$ object

   (b) Read in $HW12CVImage2.jpg$ into another $BufferedImage$ object

   (c) Convert both images to grey scale arrays

   (d) Run the background subtraction method and return a pointer to the resulting binary image, using a threshold of 50

   (e) Save the array to a png image

2. In the background subtraction image, take in two image arrays and a threshold

   (a) Create a third two dimensional array of the same size as either image

   (b) Assign either 0 or 255 to each pixel based on whether the difference between the image pixels is above or below the threshold

   (c) Return a pointer to the resulting array

For the two images provided, and a threshold of 50, the resulting image is shown below:

Submission

Submit the java file via Moodle.