In this study, the effect of the size of filters on the use of tophat and open filters on the use of tophat and open filters that have a quite common application on the processes of images. The effect of the sizes of filters is tested on the gaze estimation application which is one of the popular subjects in the processing of image. The images recorded while looking at 9 different points are recorded, the results are compared by subjecting the images to the tophat and open filters with different sizes.