# Walchand College of Engineering, Sangli

Computer Science & Engineering

Third Year

**Course: Image Processing** 

PRN NO: 2020BTECS00207

Name: Kshirsagar Mayuri Manojkumar

Lab course coordinator: Ms. P.D.Mundada

Batch: - T5

# **Experiment No:8**

Q 1) Perform segmentation by global thresholding over 4 different images. (For selection of threshold plot and display histogram of image also, and from the result choose the threshold).

#### **Function used:**

Cv2.threshold()

Cv2.calcHist()

## Syntax & meaning:

Cv2.threshold(src,thresholdvalue,maxval,thresholdtechnique)

It uses parameters as follows->

**Src** – It contains the input image.

**Thresholdvalue** – Value of threshold below and above which pixel values change accordingly.

Maxval – Maximum value assigned to the pixel.

Thresholdingtechnique – Type of thresholding to be applied

cv2.calcHist() it is in-built function in OpenCV to find the histogram.

cv2.calcHist(images, channels, mask, histSize, ranges[, hist[, accumulate]])
It uses parameters as follows->

**images:** it is the source image of type uint8 or float32.

**channels :** it is the index of channel for which we calculate histogram. For grayscale image ,its value is [0] and color image,you can pass [0],[1] or [2]to calculate histogram of blue ,green or red channel respectively.

mask: mask image. To find histogram of full image, it is given as "None".

**histSize**: this represents our BIN count. For full scale, we pass [256].

ranges: this is our RANGE. Normally, it is [0,256].















