Assignment 1 [COMPUTER VISION]

NOTE:

1) You are allowed to use any library function except the one for Jaccard Similarity

2) Submit only one pdf file [Name_RollNo]. The same file should include the code as well.

Q1) Find **tightest** bounding **circles** for the objects present in the given image. [3 Marks]

Expected O/Ps: centers & radiuses of those circles, and a visualization showing both the objects and the circles in a single image.

0.25 marks for the center [0.15] and the radius [0.1] for any object.

0.75 marks for the visualization.

Q2) Find Jaccard Similarity scores for each of the objects in the image given with respect to their corresponding circular regions obtained in Q1. [2 Marks]

0.65 marks for implementing the Jaccard Similarity module that takes two binary masks as inputs and outputs the required score.

0.15 marks for Jaccard Similarity score for any object.