

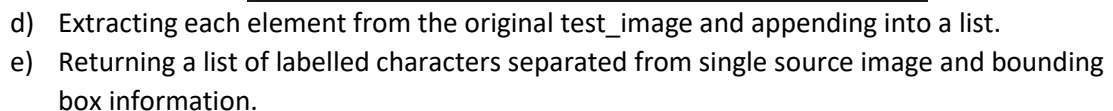
CSE-573 Project 1 - Report

Enrollment: Enrollment of the 5 characters has been done in the following sequence:

- Detection: In this part, we process the image on which the characters has to be recognized. The following sequence is followed:

- ```
[00000000000000000000000000000000]
[00000000000011111111000000000000]
[00000000002211111111111000000000]
[0000000003111111111111111100000000]
```

c) Find Bounding box of each connected component by find [xmin, ymin, xmax, ymax] and finally finding height and width of the bounding box.



1. Each template is scaled to the resolution of the target image.
2. The templates are matched using SSD.
3. The character with minimum error is considered as the closest to match.
4. If the min error is able to qualify the threshold it is said to be recognized.

OCR:

The results are appended into the list following the format as shown in the problem statement.

Conclusion:

1. With the usage of SSD for matching the F1 measure as returned by evaluate.py is **0.50**
2. However, if we simply add up the error, we are able to see the F1 measure as returned by evaluate.py is **0.7575**

```
C:\Users\jmudi\Documents\AA Spring 2021\CV CSE573\project 1\Project1(3)\Project1>python evaluate.py --preds results.json --groundtruth ./data/groundtruth.json
0.7575757575757576
```