Report Practical Exercise 02

Task 1:

1.a)

The Dice coefficient measures how big the overlap between the predicted segmentation and the ground truth is. The formula is “2 \* intersection of A and B / A + B”. This can turn into “2\*TP / TP+FP + FN+TP” for Boolean data like in our case, which equivalent to the F1 score.

The recall compares the amount of correctly labelled area to the area that should be labeled as positive (TP /TP+FN).

The precision compares the amount of correctly positively segmented area to the total positively segmented area (TP/TP+FP).

The F1-score and therefore also the Dice score is the harmonic mean of precision and recall.