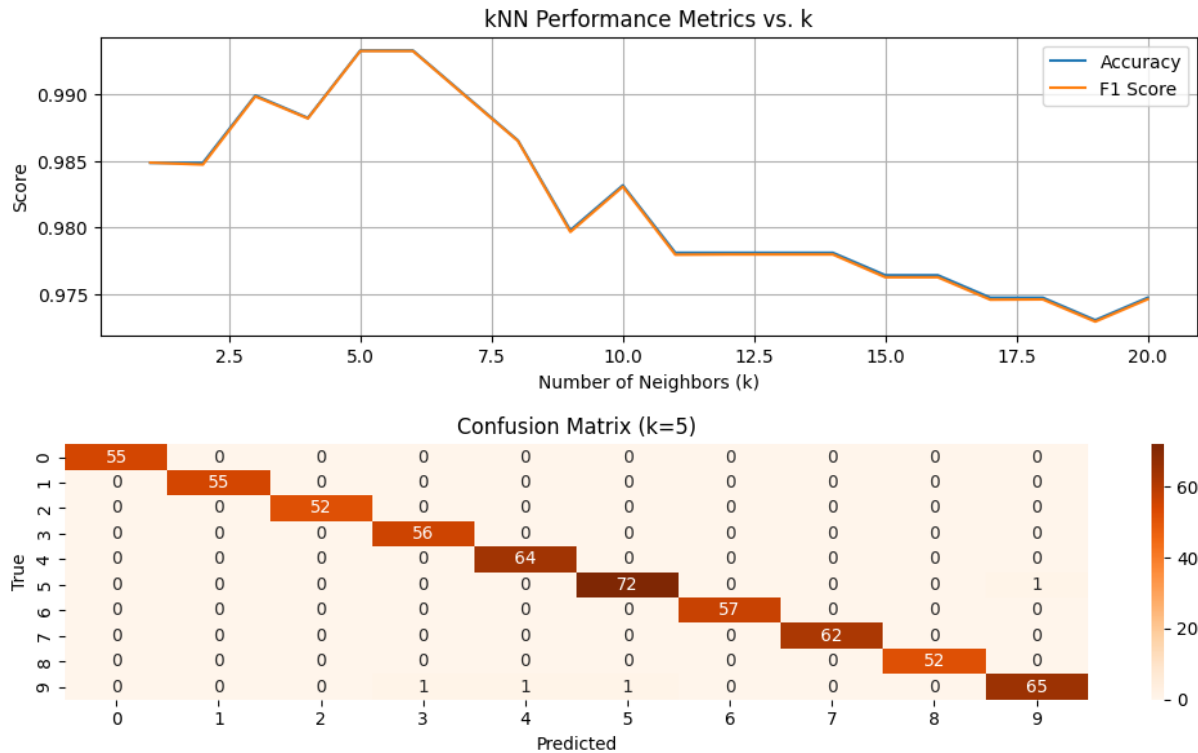


# Lab 1 – Truls and Ferdinand

Here is the plots from lab 1. We have also attached the code from the ipynb.



## Task 3:

The first plot shows the kNN performance metrics for different k values. We choose to do k=1-20 to show that the performance is decending for higher values of k. This is due to underfitting, while we see for lower k values that the model is overfitting and is sensitive to noise. From the plot we see that the best k value is at k = 5, while the confusion matrix concludes that at k = 5 the classifier performs very well at this value, with almost perfect score on the classification of the digits.