# Question 1:

## Parts a, b:

A close up of text on a white background

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## Part c: A close up of text on a white background Description automatically generated

# Question 2:

## Part a:

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# Question 3:

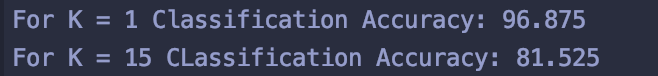
## Part 0:

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## Part 1:

* Sub Part 1:



* Sub Part 2:
  + In case of ties, I have used the rounded mean of the results

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* Sub Part 3:
  + After running 10-fold cross validation we get 96.44 for K =1 as the maximum accuracy

## Part 2:

* Please review q3\_2and3.ipynb for implementations
* All models have been tuned by different hyperparameters and have been 10-fold cross validated

## Part 3:

Please review the same notebook for implementation details.

* MLP classifier report:

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* SVM classifier report:

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* AdaBoost classifier report:

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* KNN classifier report:

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* ROC curve digit-wise

A close up of a map

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A screenshot of a map

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