K- Nearest Neighbors [ KNN ]  
 features are really important  
 feature extractor  
 n-dimensions for a pixel  
 consistent data for easier processing ( mnist dataset )  
 Lazy Learners Algorithm ( Learn along the process )  
 Supervised Learning Algorithm  
 *File specifications* First four numbers known as magic number  
 Second four numbers are number of images  
 Third four numbers are no. rows in image  
 Fourth four numbers are no. of columns in image  
 Rest numbers are pixels

X\_train 🡪 Dataset  
Y\_train🡪Labels

1) Defining a main function   
2) Reading data  
3) Flattening the data  
4) Implement the KNN algorithm  
 train data and labels  
 test data and labels  
 k ( odd numbers to break the tie , it is also known as hyperparamater)

y\_test is not passed to the function because it is to be found and checked with