We have implemented the question 1 and part 1 of question 2 using built-in KNN function and without using built-in function.

1. Q1 KNN (built-in function)

- Run the script **KNN_Q1.m.**
- choose the folder where input files are located.
- Input files **must be** in the folder with following names-
  "X_train.txt", "y_train.txt", "X_test.txt", "y_test.txt"

2. Q1 KNN (implemented algorithm)

- Run the script **KNN_Q1_dist.m.**
- choose the folder where input files are located.
- Input files **must be** in the folder with following names-
  "X_train.txt", "y_train.txt", "X_test.txt", "y_test.txt"

3. Q2_part1 KNN (built-in function)

- Run the script **KNN_Q2.m.**
- choose the folder where input files are located.
- Input files **must be** in the folder with following names-
  "X_train.mat", "y_train.mat", "X_test.mat", "y_test.mat"

4. Q2_part1 KNN (implemented algorithm)

- Run the script **KNN_Q2_dist.m.**
- choose the folder where input files are located.
- Input files must be in with following names
- **"X_train.mat", "y_train.mat", "X_test.mat", "y_test.mat"**

5. Q2_part2(Artificial neural network)

- Run the script **ANN.m.**
- Choose the folder where input files are located.
- Input files **must be** in the folder with following names-
  "X_train.mat", "y_train.mat", "X_test.mat", "y_test.mat"