**ReadME Document**

**Steps for executing the assignment is as follows:**

**EM Algorithm with general GMM Program:**

1. Copy paste the “source code” folder and dataset into a directory from EM Algorithm\_general\_GMM folder.
2. Open the command prompt and go to the directory until you get “source code” folder.
3. Now to compile the code use the command as follows

* **javac Main\_EM.java**

1. Now to run the code use the following command:

* **java Main\_EM <dataset> <k value>**

**Example:** java **Main\_EM em\_data.txt** 3

**Note:** Please specify the file name of the dataset file along with .txt extension else It will throw “FileNotFound” Exception

**EM Algorithm for general GMM with known variance Program:**

1. Copy paste the “source code” folder and dataset into a directory from EM Algorithm\_general\_GMM\_known\_variance folder.
2. Open the command prompt and go to the directory until you get “source code” folder.
3. Now to compile the code use the command as follows

* **javac Main\_EM.java**

1. Now to run the code use the following command:

* **java Main\_EM <dataset> <k value>**

**Example:** java **Main\_EM em\_data.txt** 3

**Note:** Please specify the file name of the dataset file along with .txt extension else It will throw “FileNotFound” Exception