**ReadME Document**

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

**Perceptron Program:**

1. Copy paste the “source code” folder and dataset into a directory.
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 MainPromoters\_Perceptron.java**

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

* **java MainPromoters\_Perceptron <training\_set> <validation\_set>**

**Example:** java MainPromoters\_Perceptrontraining.new validation.new

**K means Program:**

1. Copy paste the “source code” folder and images into a directory.
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 KMeans.java**

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

* **java KMeans <input image> <k> <output image>**

**Example:** java **KMeans** penguin.jpg 10 output.jpg

WHERE K is the value for k mean algorithm, which can take values like 5,10,15,20.

**For LIBSVM:**

svm-train.exe -s 4 -t 3 " training.new" svm.model

svm-predict.exe " validation.new" svm.model output