

(1)

```
F:\CSE 3521 - Intr Artif Intell\HW_4_Programming>python Linear_Classifiers.py --data simple --algorithm logistic
```

number of training data instances: (3, 8)

number of test data instances: (3, 2)

number of training data labels: (8, 1)

number of test data labels: (2, 1)

Accuracy: training set: 1.0

Accuracy: test set: 1.0

(2)

```
F:\CSE 3521 - Intr Artif Intell\HW_4_Programming>python Linear_Classifiers.py --data starplus --algorithm logistic
```

number of training data instances: (258391, 40)

number of test data instances: (258391, 14)

number of training data labels: (40, 1)

number of test data labels: (14, 1)

Accuracy: training set: 1.0

Accuracy: test set: 0.7142857142857143

(3)

```
F:\CSE 3521 - Intr Artif Intell\HW_4_Programming>python Linear_Classifiers.py --data simple --algorithm perceptron
```

number of training data instances: (3, 8)

number of test data instances: (3, 2)

number of training data labels: (8, 1)

number of test data labels: (2, 1)

Accuracy: training set: 1.0

Accuracy: test set: 1.0

(4)

```
F:\CSE 3521 - Intr Artif Intell\HW_4_Programming>python Linear_Classifiers.py --data starplus --algorithm perceptron
```

number of training data instances: (258391, 40)

number of test data instances: (258391, 14)

number of training data labels: (40, 1)

number of test data labels: (14, 1)

Accuracy: training set: 1.0

Accuracy: test set: 0.7857142857142857