Giang Duong – ID 014533857

Assignment 6 – CS 271

Professor Mark Stamp

Problems 1, 2, 4, 6, 8

A picture containing calendar

Description automatically generated

Text, letter

Description automatically generated

**4.**

Letter

Description automatically generated

**6. a**

Weights ->

[0.974789091334698, 4.809937143244501, 0.7444642839954673, 2.441124015206587, -4.183234902756482, 3.6388695492322847]

Predicted Value -->

[1, 0, 0, 1, 1, 0, 1]

Expected Training Value ->

[1, 0, 0, 1, 1, 0, 1]

Accuracy -> 100.00

Predicted Value for Testing Set ->

[1, 1, 1, 0, 0, 1, 1, 0, 0, 0]

Predicted value for Training Set ->

[1, 0, 1, 0, 0, 1, 1, 0, 1, 0]

Accuracy -> 80.00

**6. b**

Weights ->

[0.9872087581119291, 7.0581617869102375, 0.6776821921455273, 1.5217262742577355, -17.50863874737142, 13.356130962546924]

Predicted Value -->

[1, 0, 0, 1, 1, 0, 0]

Expected Training Value ->

[1, 0, 0, 1, 1, 0, 1]

Accuracy -> 85.71

Predicted Value for Testing Set ->

[1, 1, 1, 0, 0, 1, 1, 0, 0, 0]

Predicted value for Training Set ->

[1, 0, 1, 0, 0, 1, 1, 0, 1, 0]

Accuracy -> 80.00

8.

Text, letter

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