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**Assignment 4**

Output:

**python neural\_network.py pendigits\_training.txt pendigits\_test.txt 2 10 10**

classification accuracy=0.8662

**python neural\_network.py pendigits\_training.txt pendigits\_test.txt 3 20 20**

classification accuracy=0.9200

**Task 2:**

bias = [-1.5]

weights = [1, 1, 1]

A picture containing object, antenna

Description automatically generated

**Task 3:**

bias = [0.5]

weights = [-1, 1]

A picture containing object, clock, drawing

Description automatically generated

**Task 4:**

Diagram

Description automatically generated

**Task 5:**

Yes,

Diagram

Description automatically generated