NNS Lab 4 - Answer Sheet

Routing

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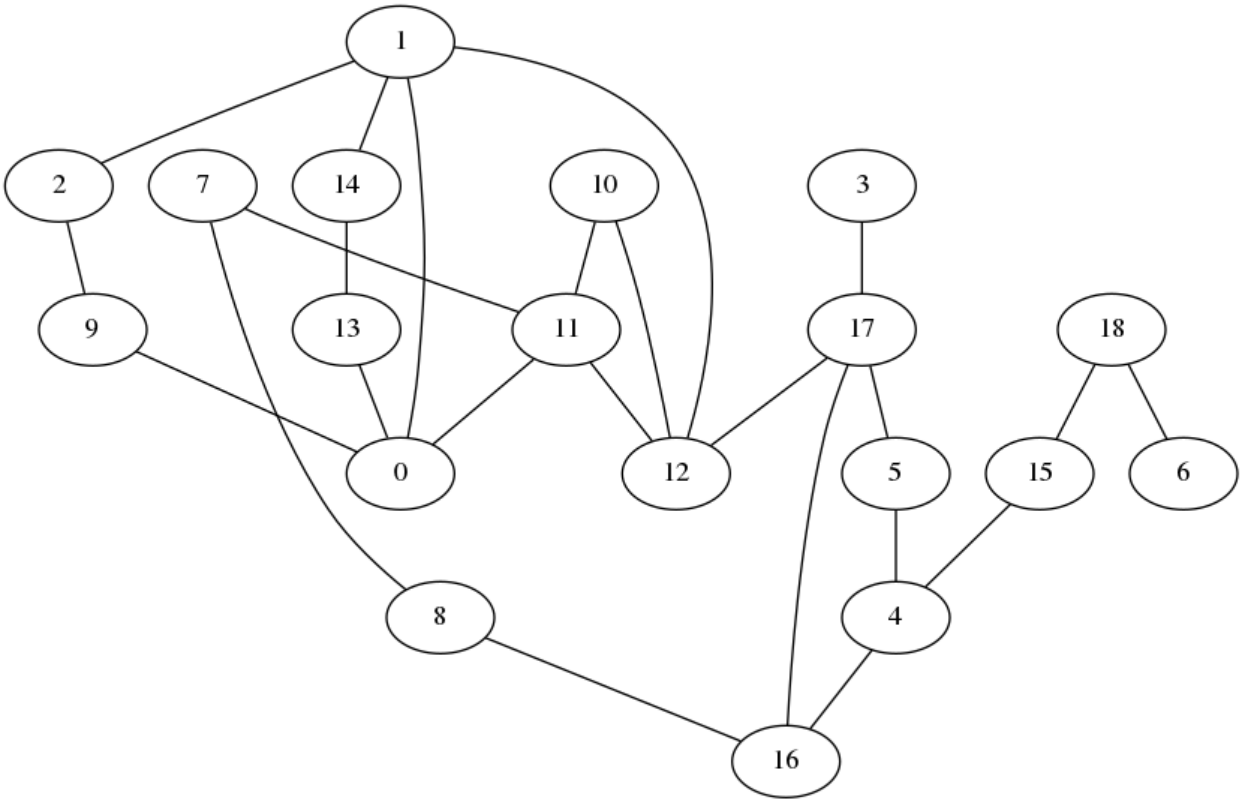
Operating System: ubuntu 16.04 | Python 3

Task 1.

Transformed graph plots.



Task 2.

1)

Write down the number of nodes in the shortest path

['[0] Adelaide1' -> '[11] Melbourne1' -> '[7] Canberra1' -> '[8] Canberra2' -> '[16] Sydney1' -> '[4] Brisbane1']

6 nodes

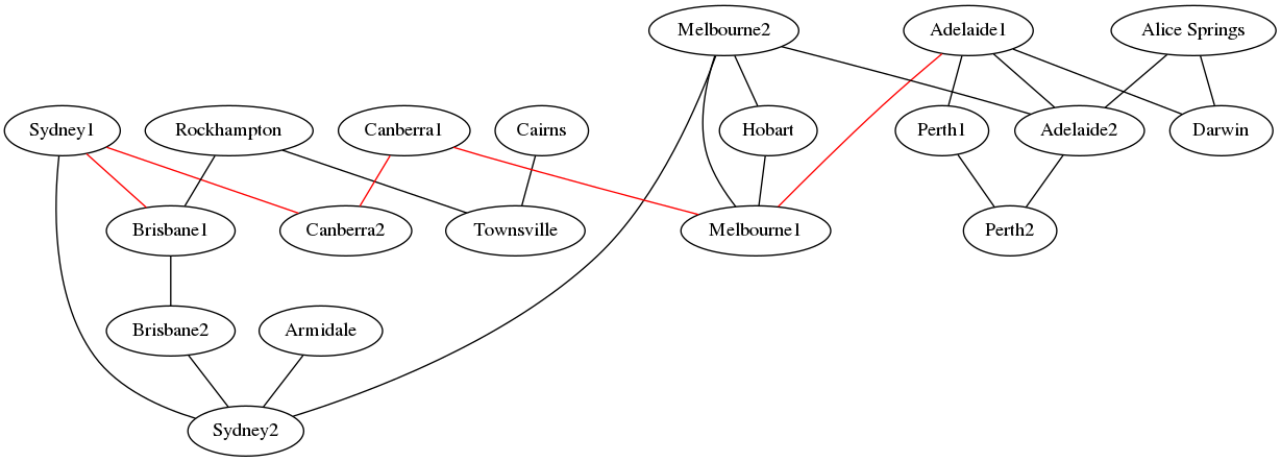
2)

Write down the name of nodes in the shortest path

same? ^^^^

3)

Identify the shortest path in the plots



Task 3.

1)

Write down the diameter of the network

network diameter is: (('Darwin', 'Cairns'), 6104.6925140756 km)

2)

path between diameter is: ['Darwin', 'Adelaide1', 'Melbourne1', 'Canberra1', 'Canberra2', 'Sydney1', 'Brisbane1', 'Rockhampton', 'Townsville', 'Cairns']

3)

Write down the number.

distance between 1 and 6 2119.556657484295

amount of pairs exceed 158 off total 361

Task 4.

1) No, not in path

2)