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Experimental Results of solution of travel salesperson problem using SOM Neural Network (for 6 cities):

I commented about parameters on my program. For details you can see my programs comments.

According to the coordinates of 6 cities that I listed in the program.

```
tspdata=[.9 .5;.6 .9;.2 .7;.1 .2;.4 .4;.7 .1];% tspdata  --  the position of cities

winit=[0 .3;.9 .8;.5 .5;.6 1;.4 .1;.1 .7];% the weights between input layer and
output layer
```

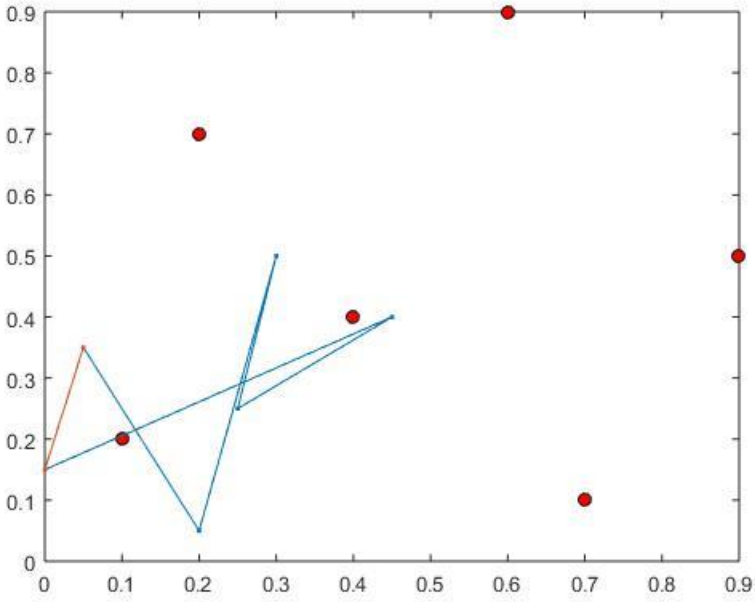
Finally, the solution is **city 4, city 5, city 6, city 1, city 2, city 3**

And according to the diagram (final diagram) we can see after 161 iterations, all of weights are stable.

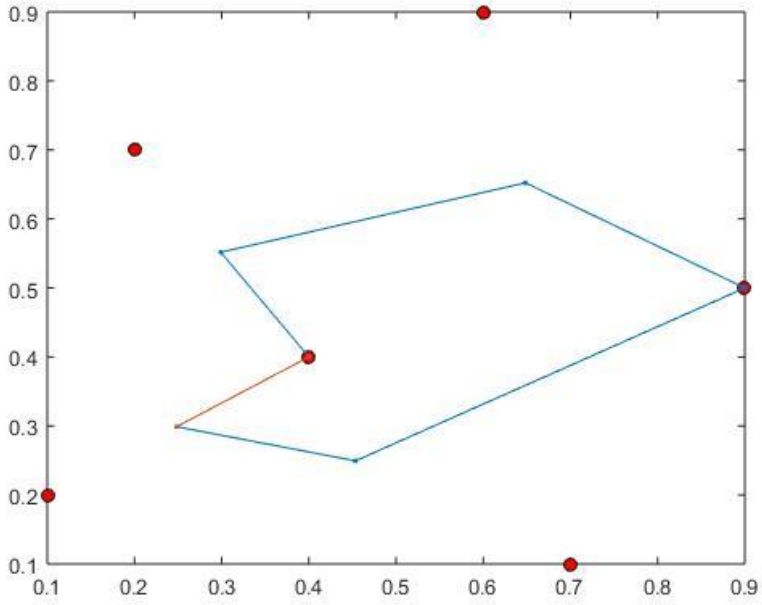
And the final weight matrix is:

w =[.1 .2; .4 .4 ; .7 .1 ; .9 .5 ; .6 .9 ; .2 .7]

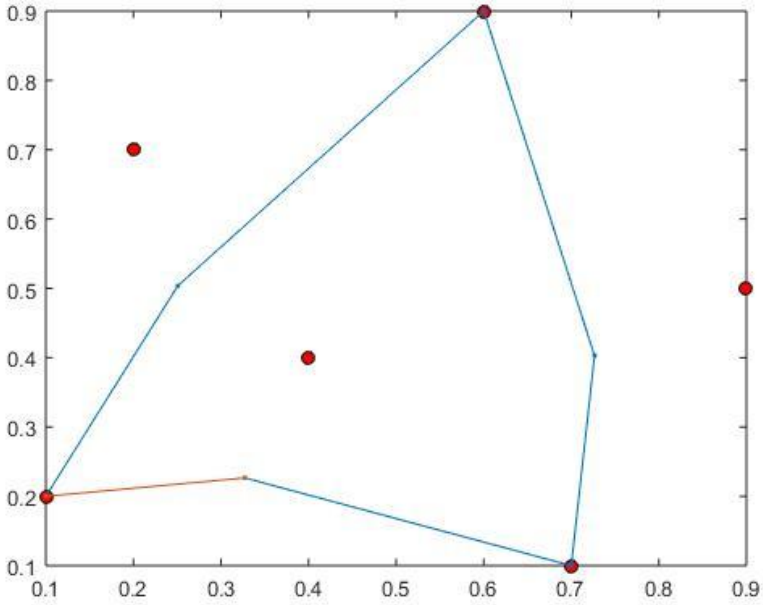
Number of iterations=1



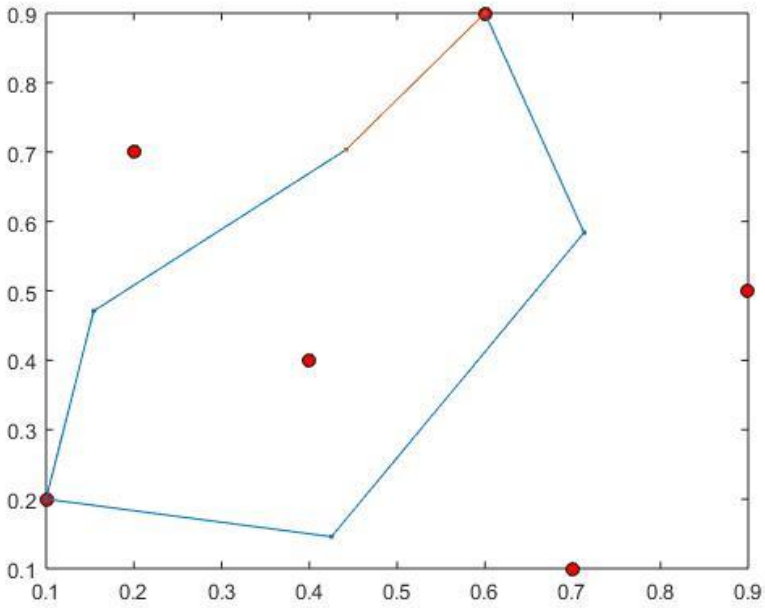
Number of iterations=5



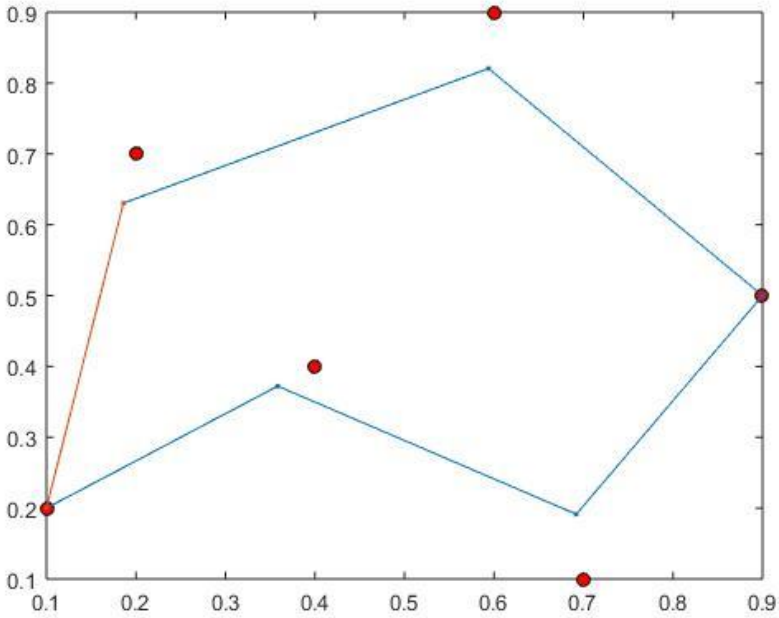
Number of iterations=10



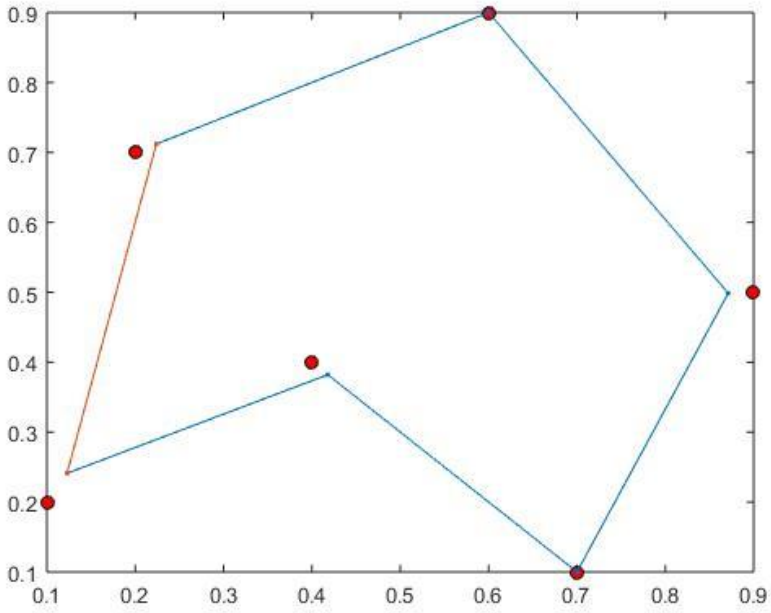
Number of iterations=40



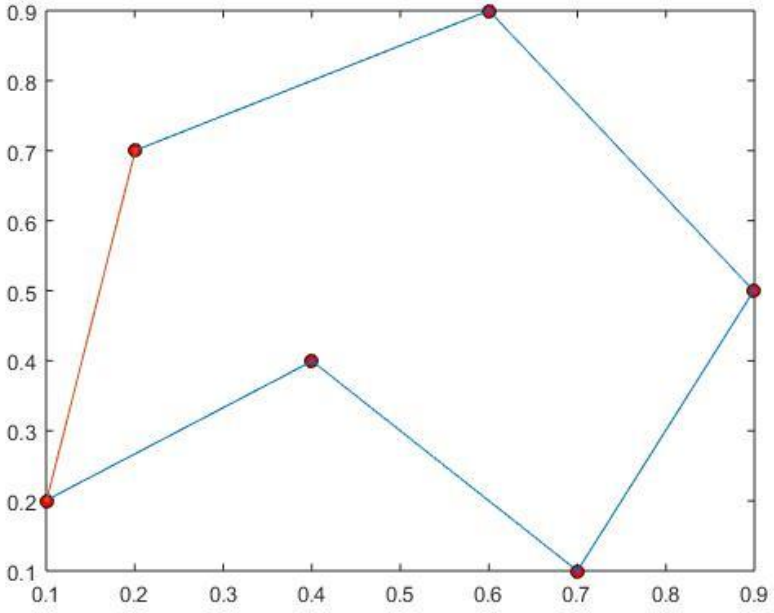
Number of iterations=90



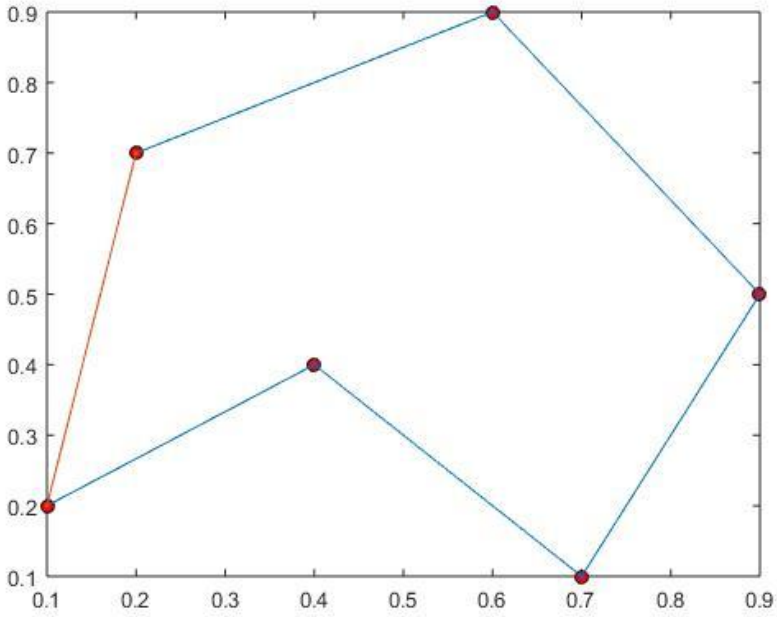
Number of iterations=100



Number of iterations=120



Number of iterations=150



Number of iterations=161(End of iterations)