1. Give in your own words the difference between self-organizing and hetero-associative.
2. Draw a two layer network for each case in 1) .
3. Write down the equations that would allow either hetero-association or self-organization to be achieved.
4. Create a self-organizing layer of thee neurons, and an input layer of three neurons. Choose small random synaptic weights for each synaptic weight. Impose a pattern on the input layer and calculate 1) the resulting activity in the output layer, 2) the new synaptic weights and 3) the new resulting activities in the output layer.