

# CHAPTER IV

## FORECASTING OF NEW ISSUED BANKNOTES USING PERCEPTRON METHOD

### 4.1 Introduction

Perceptron is a supervised paradigm firstly designed to explain and model the pattern recognition capabilities of the visual system. It was developed by Frank Rosenblatt of Cornell Aerolaboratory. The perceptron is a feedforward network without any feedback, without connections between neurons in the same layer.

Rosenblatt's one-layer perceptron is not able to solve simple function such as the exclusive-or (XOR) problem. A three-layer perceptron is capable of separating linearly inseparable variables, including the XOR problem [20].

### 4.2 Analysis and Conclusion

The output of using perceptron can be interpreted to higher or lower, on or off, and so on. For the application here, it might be possible to forecast the trend of new issued banknotes to see the trend whether it will be increase or decrease. However, the forecasting of regression technique cover much more than this. Therefore, this architecture is not applicable for the proposed application.