# Lab Scenario

Backpropagation is an algorithm used to train neural networks. The backpropagation algorithm uses delta rule or gradient descent to identify the value of weight at which the error becomes minimum. The weight that minimises the error is considered as the solution to the problem. The output is analysed by using the sigmoid function. In this lab, you will understand how to implement the backpropagation algorithm with the help of the Python programming language.

In this lab, you will learn how to:

* Initialise neural network class
* Add the bias unit to the input layer
* Evaluate the gradient value of the weight