In this report, we’ll analyze some basics in using Matlab. Following this idea, we’ll implement a simple sigmoid function, along with its derivative.

To obtain this, we’ll use 2 for loops to implement the iterations through the elements if the matrix:

we’ll follow the same rules for the derivative and we obtain:



Exp 2) In this experiment, we define a simple neural network using Matlab’s toolbox to classify the **AND** dataset. To obtain this, we define **Inputs** and **outputs** as:

we then run the toolbox using **nnstart** command from the Matlab’s command line.