CSSE 313. Perceptron Learning Worksheet

Trace the perceptron learning algorithm below for one iteration. Assume a learning rate of 0.05 and a step activation function with a threshold of 0.1

repeat
   for each e in *examples*:
      $in \leftarrow \Sigma_{j=0..n} W_j x_j[e]$
      $Error \leftarrow y[e] - g(in)$
        $W_j \leftarrow W_j + \alpha * Error * x_j[e]$
   until *done*

X_1	X_2	W_1	W_2	In	g(in)	y	Error	$\alpha*Error*x_1$	$\alpha*Error*x_2$
0	0	0.1	0.1						
0	1								
1	0								
1	1								