Tobby Lie
September 2, 2019
CSCI-5931
Programming Assignment 1

Report									
	Configurations	**Accuracy Train set**	**Accuracy Test set**	**Precision Train set**	**Precision Test set**	**Recall Train set**	**Recall Test set**	**F1-Score Train set**	**F1-Score Test set**
ANN-1	8x4, sigmoid 4x5, sigmoid 5x4, sigmoid 4x5, sigmoid 5x4, sigmoid 4x1, sigmoid Epoch=100 Scaling=yes	0.8512	0.8461	0.7463	0.6361	0.4204	0.4180	0.5094	0.4787
ANN-2	8x11, relu 11x9, relu 9x5, relu 5x3, sigmoid 3x1, sigmoid Epoch=100 Scaling=yes	0.8625	0.8489	0.7575	0.6511	0.4703	0.4147	0.5555	0.4839
ANN-3	8x11, sigmoid 11x15, sigmoid 15x5, sigmoid 5x30, sigmoid 30x1, sigmoid Epoch=1000 Scaling=yes	0.8628	0.8483	0.7513	0.6552	0.4458	0.3682	0.5370	0.4509
ANN-4	8x200, sigmoid 200x150, sigmoid 150x50, relu 50x120, sigmoid 120x1, sigmoid Epoch=100 Scaling=yes	0.8636	0.8511	0.7743	0.6741	0.4447	0.4016	0.5406	0.4766

NOTE: F1-SCORE NOT EXACT VALUE BECAUSE K.EPSILON IS UTILIZED IN DENOMINATOR IN ORDER TO ENSURE THERE ARE NO DIVIDE BY ZERO ERRORS SO AS EPOCH INCREASES THE VALUE OF F1-SCORE BECOMES INFLATED.