NN Task 2 Report

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This is the result of running dry beans data set in multi-layer neural networks model (multi perceptron).

1. When applying sigmoid as an activation function:

Activation Function	Sigmoid
Train Accuracy	100.0
Test Accuracy	98.3
LR	0.1
Epochs	600
Num OF layers	1
Num Of Neurons	5

```
******************************************************************
train accuracy :  100.0
test accuracy :  98.33333333333333
******************************************************************
```
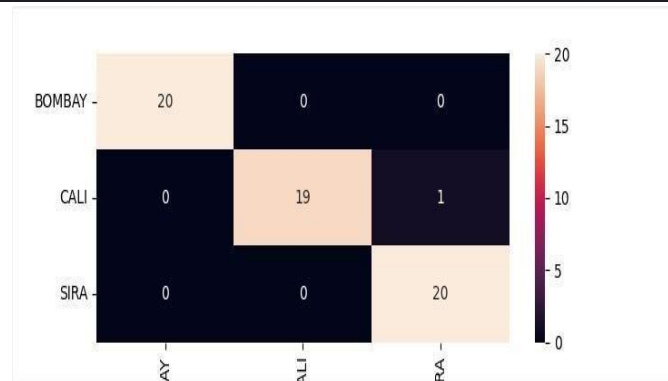
2. When applying Tanh as an activation function:

Activation Function	Tanh
Train Accuracy	100
Test Accuracy	100
LR	0.1
Epochs	1000
Num OF layers	2
Num Of Neurons	5,5

```
********************************************************************
train accuracy :  100.0
test accuracy :  100.0
********************************************************************
```