Neural and deep learning

Task 2

Team 89

Name	Id
حبيبة شعبان أحمد	20201701069
فاطمه نميري عبدالله	20201700574
محمد جمال ابراهيم	20191700922
ميار مصطفي عبده عبدالواحد	20201700877
ايمن سالم صالح	20201700167

Sigmoid

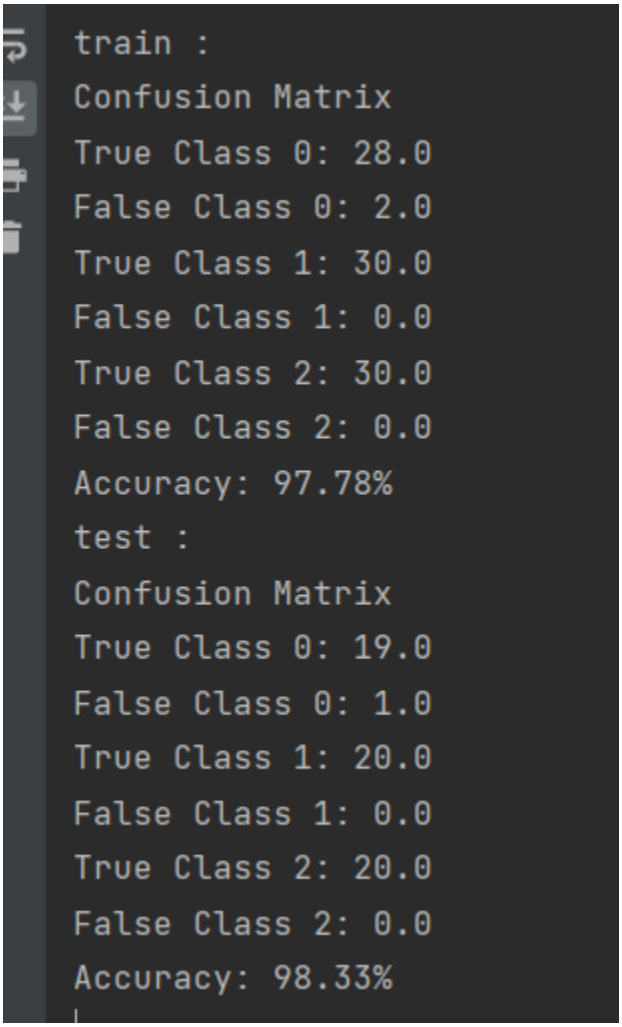
With bias

Using learning rate =0.01

Number of hidden layers =2

Neurons =3,4

Number of epochs =1000



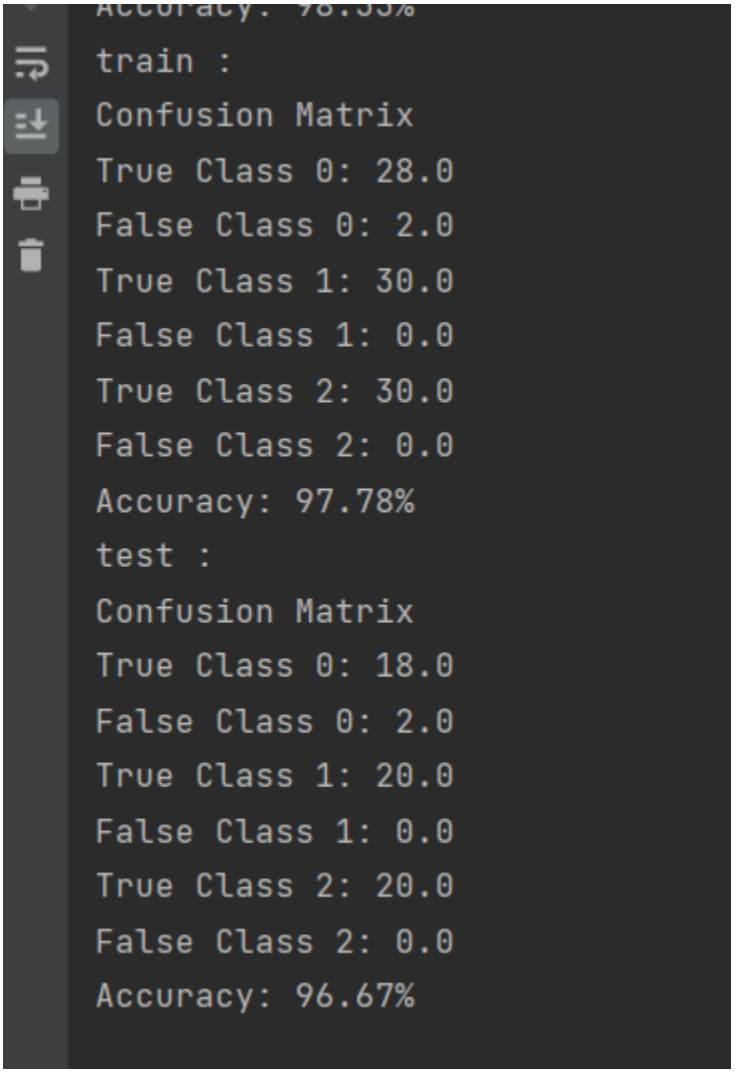
Without bias

Using learning rate =0.01

Number of hidden layers =2

Neurons =3,4

Number of epochs =1000



Hyperbolic Tangent sigmoid

Without bias

Using learning rate =0.001

Number of hidden layers =3

Neurons =2,3,5

Number of epochs =1000

```
train :
Confusion Matrix
True Class 0: 30.0
False Class 0: 0.0
True Class 1: 30.0
False Class 1: 0.0
True Class 2: 30.0
False Class 2: 0.0
Accuracy: 100.00%
test :
Confusion Matrix
True Class 0: 20.0
False Class 0: 0.0
True Class 1: 20.0
False Class 1: 0.0
True Class 2: 20.0
False Class 2: 0.0
Accuracy: 100.00%
```

With bias

Using learning rate =0.001

Number of hidden layers =3

Neurons =2,3,5

Number of epochs =1000