

```
d_predicted_output = error *
sigmoid_derivative(predicted_output)
error_hidden_layer =
d_predicted_output.dot(output_weights.T)
d_hidden_layer = error_hidden_layer *
sigmoid_derivative(hidden_layer_output)
#Updating Weights and Biases
output_weights
+=hidden_layer_output.T.dot(d_predicted_output) * lr
output_bias +=
np.sum(d_predicted_output,axis=0,keepdims=True)* lr
hidden_weights += inputs.T.dot(d_hidden_layer) * lr
hidden_bias +=
np.sum(d_hidden_layer,axis=0,keepdims=True) *lr
print("Final hidden biases: ",end="")
print(*hidden_weights)
print("Final hidden bias: ",end="")
print(*hidden_bias)
print("Final output weights: ",end="")
print(*output_weights)
print("Final output bias: ",end="")
print(*output_bias)
print("\nOutput from neural network after epochs :")
+str(epochs)
print(*predicted_output)
```