# Assignment 4

## 1.

### 1.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| 0 | 0 | 1 | 0 | 1 | 1 |
| 0 | 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 | 1 |
| 1 | 1 | 0 | 1 | 1 | 1 |

2. The transformation was as expected.

2.  
Three important stages in the programming assignment where data generation, FFNN model generation, and FFBNN model generation. I used code from assignment 1 and 2 for data generation. I split the data from the labels. I also transformed labels from Boolean values to arrays.

I used Keras for FFNN model creation. I made a function that took number of layers and size of layers that the network should have. FFBNN models where almost identical, but used Larq’s QuantDense layers instead of Keras Dense layers.