Implementation of a simple neural network in the graph mode

Task 1

Use tensor operations and graph mode to implement a neural network operating on precision tf.float32, with 10-6-1 architecture (vector input length of 10, layer of 6 neurons and layer with one neuron) with Sigmoid activation functions and dense connections.

The definition of the network should be in the form of a function:

```
@tf.function
def neural_net(x: tf.Tensor, w1: tf.Tensor, w2: tf.Tensor, b1: tf.Tensor, b2: tf.Tensor):
    ...
return y
```

where x is the input vector of features, y is the network response, w is the vectors of weights, and b is the bias vectors.

The network performs a simple binary classification task (decides between class A or B). Call the function for the following parameters:

```
w1 = [[ 1.4334732, -1.5244598 , 1.139654 , 2.723477, 2.372128, -1.8221221],
[ 1.6633688, -1.3922757, 2.0349483, 1.6314147, 1.6997916, -1.719175],
[ 1.6464833, -1.6136154, 1.6790704, 2.1913328, 1.7154503, -2.122219],
[ 2.2029521, -2.2169485, 1.1411709, 1.7363839, 1.9620435, -1.990284],
[ 1.864349, -1.9724554, 1.282788, 1.3895663 , 1.2881863, -1.3681948],
[ 0.4421571, 0.24537054, 0.49080196, -0.0939824, 0.36308903, -0.32526237],
[ -1.6102886, 1.7532632, -1.3683709, -1.2728035, -1.8335032, 1.6637068],
[ -1.0453694, 0.95990705, -1.913037, -1.637573 , -1.8312218, 1.9757035],
[ -2.6982157, 1.5073962, -2.243781, -2.7327728 , -2.5648139, 1.9095569],
[ -2.0628226, 2.3980575, -1.3550557, -2.1798916 , -2.1485612, 2.2912557]]
b1 = [ -1.6460503, 1.5486399, -1.5155386, -1.6247352, -1.2638505, 1.5515162]
w2 = [[ 2.220895 ], [ -2.903738 ], [ 1.7675139], [ 2.3042984], [ 2.6292808], [ -2.763858 ]]
b2 = [ -1.1827456]
and input feature vectors:
```

x1 = [0.85, 0.86, 0.76, 0.73, 0.95, 0.5, 0.5, 0.5, 0.5, 0.5]

For the set values, the results should look like this:

y1 = 0.9977336

y2 = 0.00667116

The use of operations with tf.keras is prohibited. The whole should be implemented using basic tensor operations and functions tf.math.sigmoid().