Advanced Artificial Intelligence
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Assignment #1- Fall - 2020

Hot to use NuralNetworkSim Program

Step 1: Open the program main window

Desktop > university > AI > build-NeuralNetworkSim-Desktop_Qt_5_14_2_MSVC2017_64bit-Debug > debug

Name	Date modified	Type	Size
iconengines	11/7/2020 8:54 PM	File folder	
imageformats	11/7/2020 8:54 PM	File folder	
platforms	11/7/2020 8:54 PM	File folder	
styles	11/7/2020 8:54 PM	File folder	
translations	11/7/2020 8:54 PM	File folder	
D3Dcompiler_47.dll	3/11/2014 6:54 PM	Application exten...	4,077 KB
libEGLd.dll	3/27/2020 9:18 PM	Application exten...	70 KB
libGLESv2d.dll	3/27/2020 9:18 PM	Application exten...	20,306 KB
main.obj	11/4/2020 9:19 AM	Object File	90 KB
mainwindow.obj	11/14/2020 8:04 PM	Object File	754 KB
moc_mainwindow	11/4/2020 9:19 AM	C++ Source file	4 KB
moc_mainwindow.obj	11/4/2020 9:19 AM	Object File	95 KB
moc_predefs	10/29/2020 11:06 AM	C++ Header file	1 KB
moc_weights_input	11/4/2020 9:19 AM	C++ Source file	3 KB
moc_weights_input.obj	11/4/2020 9:19 AM	Object File	90 KB
NeuralNetworkSim	11/14/2020 8:04 PM	Application	306 KB
NeuralNetworkSim.ilk	11/14/2020 8:04 PM	Incremental Linke...	3,307 KB
NeuralNetworkSim.pdb	11/14/2020 8:04 PM	Program Debug D...	3,780 KB
NeuralNetworkSim.vc.pdb	11/14/2020 8:04 PM	Program Debug D...	2,364 KB
NeuralNetworkSim_resource.res	11/7/2020 8:59 PM	Compiled Resourc...	52 KB

Step 2: Select the number of inputs nodes (Nx) and the
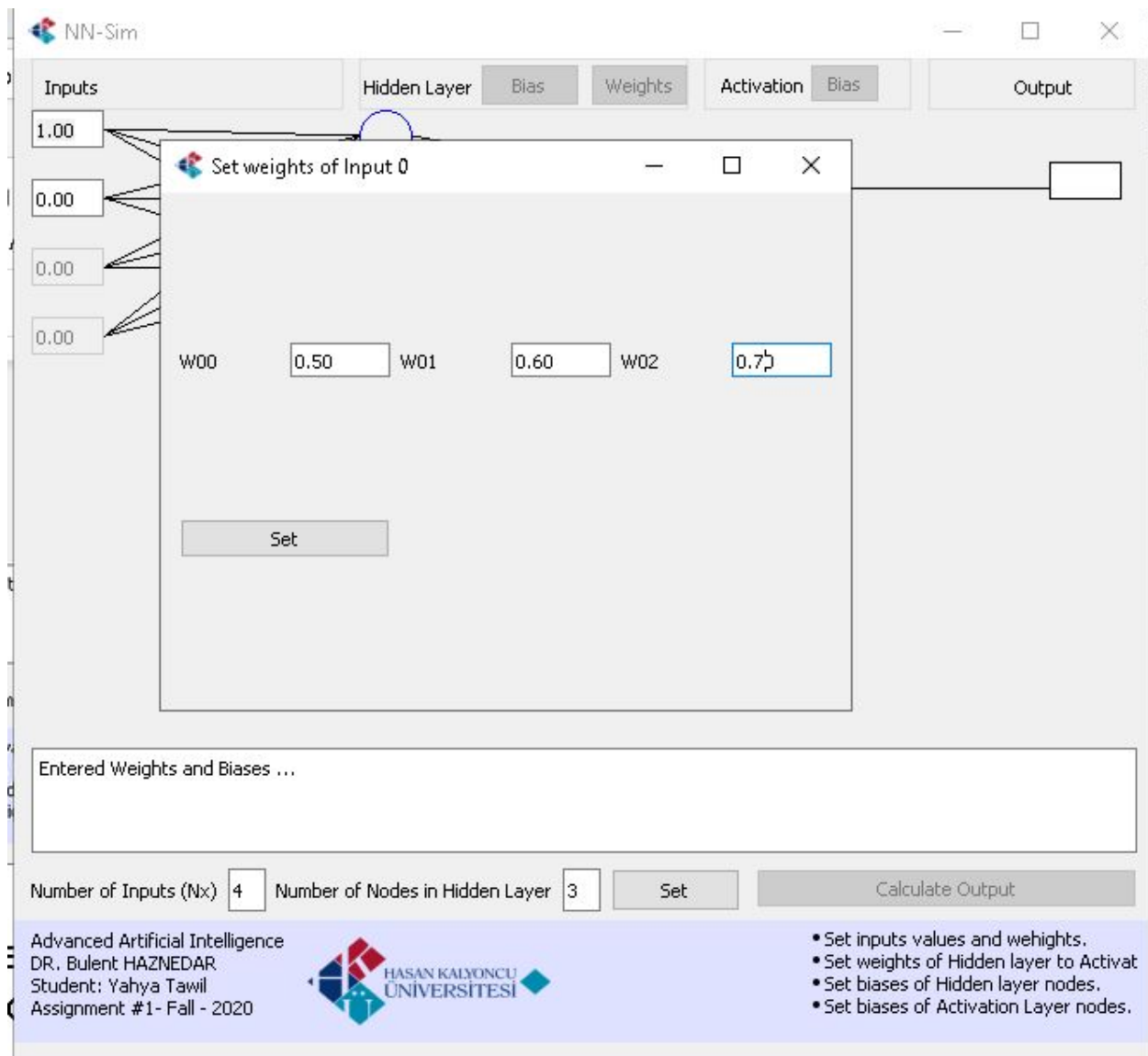number of nodes in the hidden layer.

Step 3: Press Set to draw the network
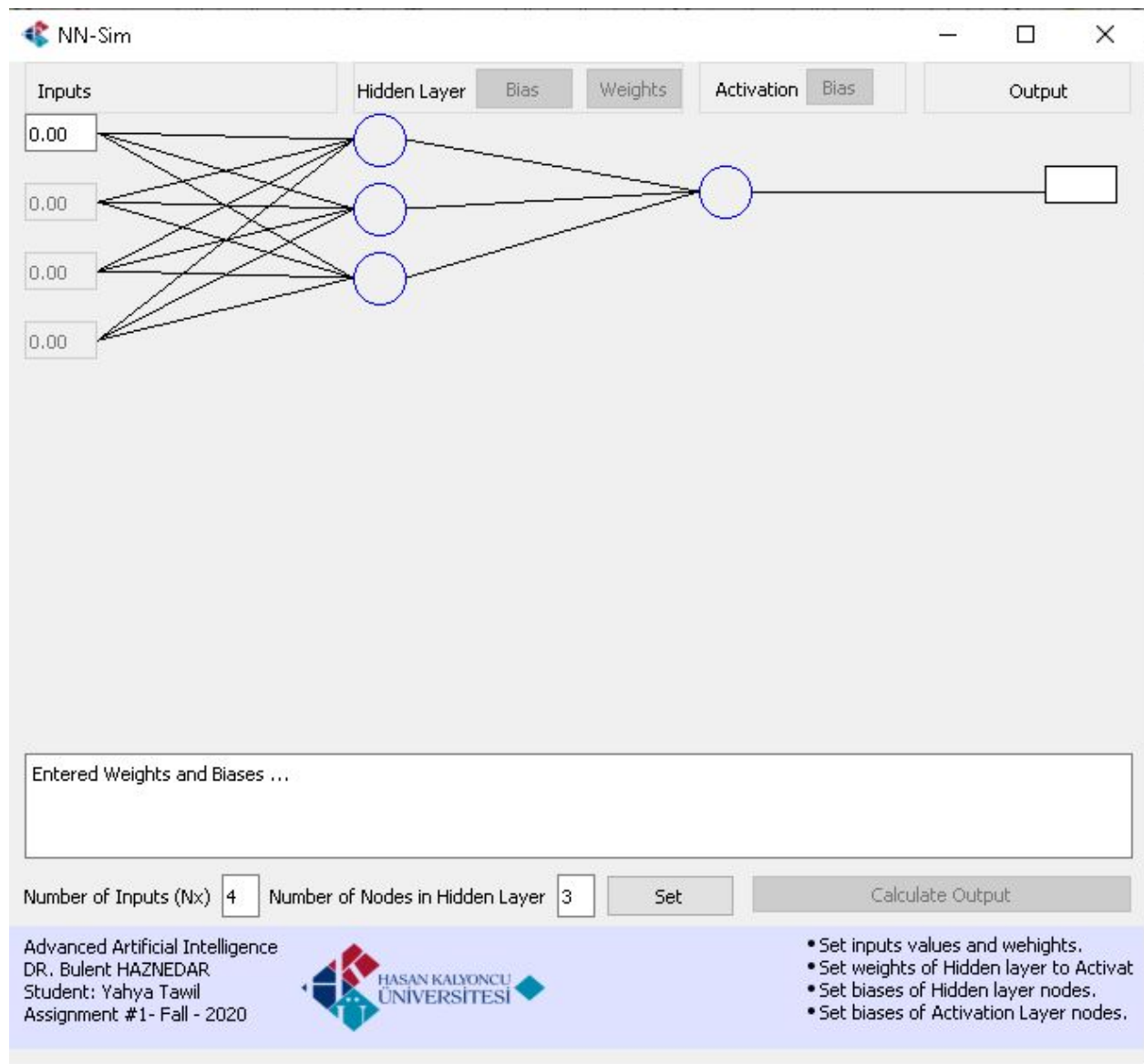
## Step 4: Input the input value one by one, each time press enter to open the widget that is responsible to set the weights.

NN-Sim

| Inputs | Hidden Layer | Bias | Weights | Activation | Bias | Output |

1.00

0.00

0.00

0.00

Set weights of Input 0

W00   0.50   W01   0.60   W02   0.7ɔ

Set

Entered Weights and Biases ...

Number of Inputs (Nx) 4   Number of Nodes in Hidden Layer 3   Set   Calculate Output

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- Set inputs values and wehights.
- Set weights of Hidden layer to Activat
- Set biases of Hidden layer nodes.
- Set biases of Activation Layer nodes.

Step 5: Click on Biase, Weights buttons to open a widget to input the respective values.
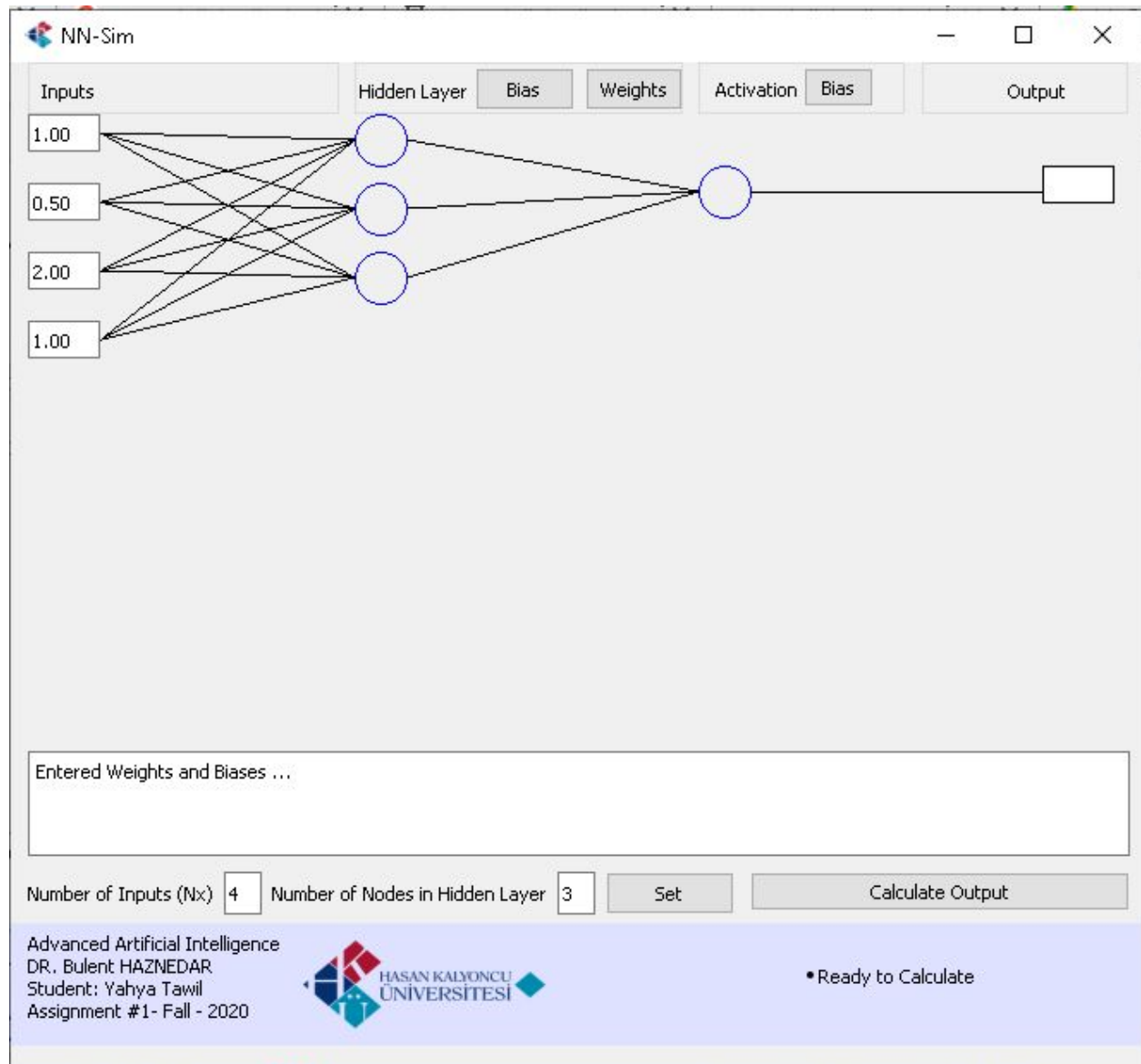
Step 6: After doing all above steps, the 'Calculate Output' button is activated. Press it.
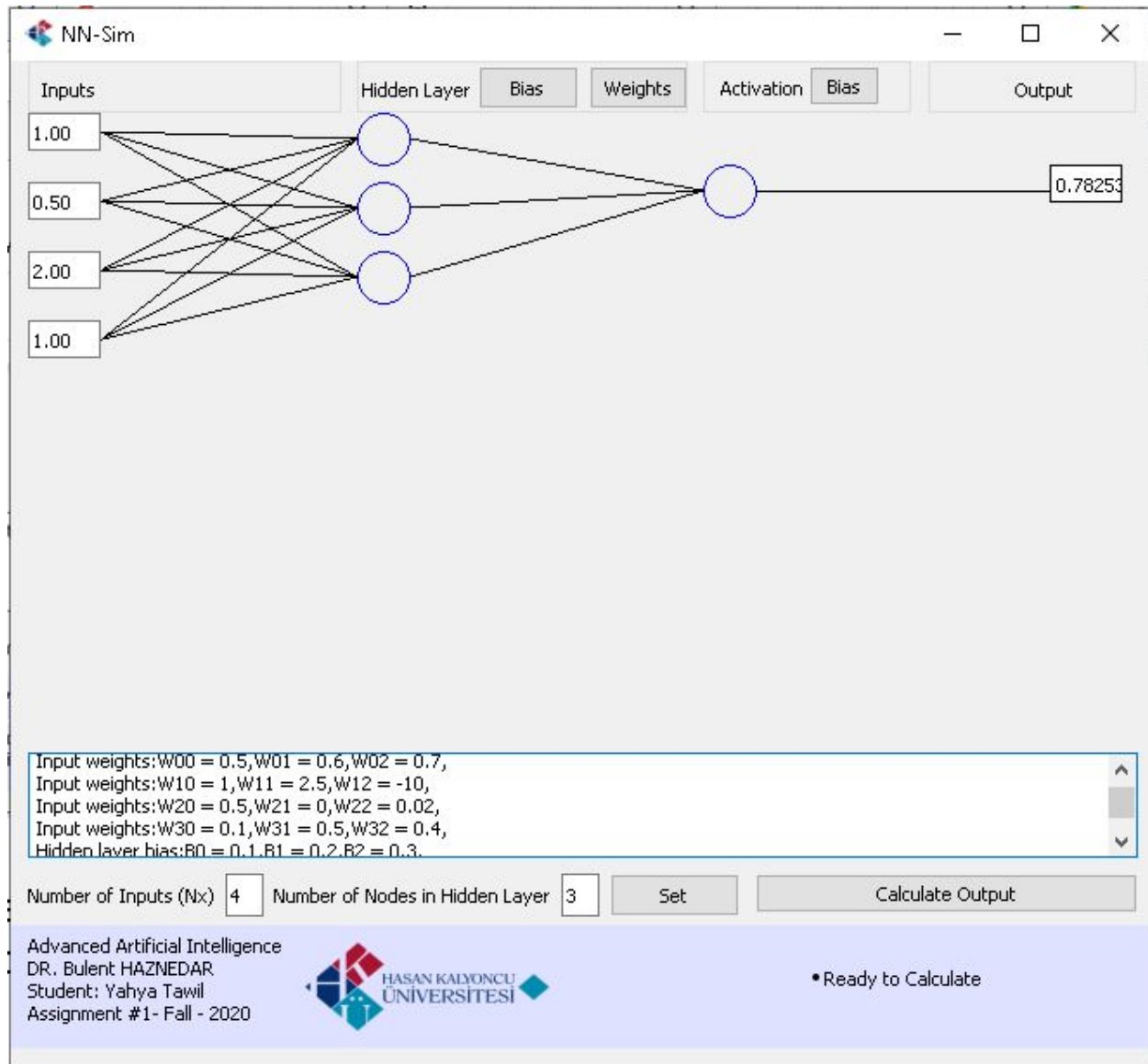
Step 7: To reset values. Press Set button again.