CIS 635 Data Mining   Name Sajal

Homework 6

<center>Hand in sheet</center>

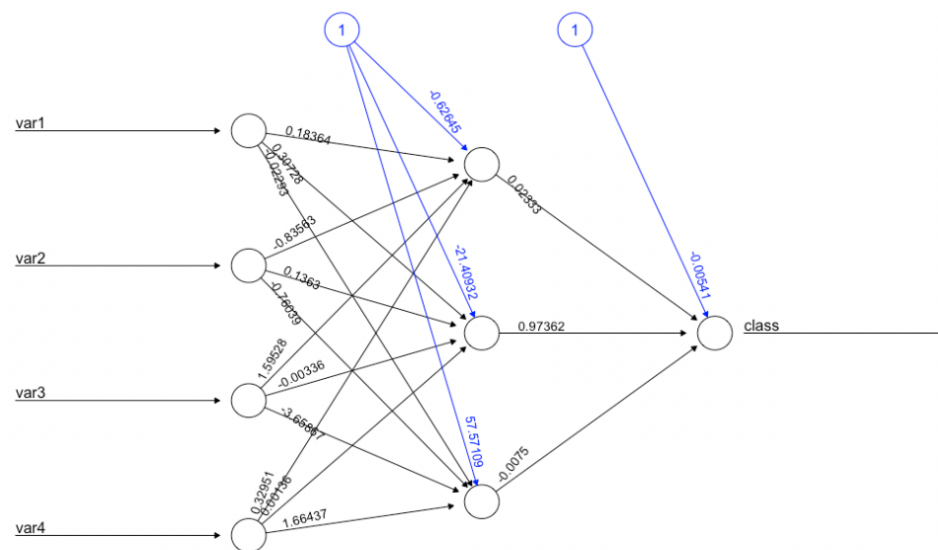Write in or copy and paste the answers for the following:

Part 1

    1.   -0.4

    2.   1.4

Part 2

adjustments:	w0	w1	w2
• instance 1	-0.2	0.0	-0.2
• instance 2	-0.2	-0.2	0.0
• instance 3	0.0	0.0	0.0
• instance 4	-0.2	0.0	0.0
• final weights	-0.5	-0.1	-0.1

Part 3

1. paste in the plot of ANN

Error: 50.692719   Steps: 28106

2. paste r commands

```
trainDs = read.table("hw06dataTrain.txt", header = TRUE)

testDs = read.table("hw06dataTest.txt", header = TRUE)


# build the model

set.seed(1)

mod = neuralnet(class~var1+var2+var3+var4, trainDs, hidden=3)


# plot the model

plot(mod)


# predict result using test data set

pred = compute(mod, testDs)


# create confusion matrix

table(sign(pred$net.result), testDs[,5])
```

3. confusion matrix   0   0

                       231   269