

## Assignments – Admin Questions

1. Assignments can be done in pairs but not in groups of more than 2 students
2. You are not allowed to use the *nntool*
3. Submission: 1) hard copy (report+code) -> in the locker labelled COMP4302/COMP5322 located in Madsen Building and 2) electronically (report+code) by e-mail or netfile to your tutor
4. Deadline: Tuesday 5pm the week the assignment is due

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## Assignment 1 Questions

1. Generate approximately equal number of examples for each class  
- safeguard against unbalanced distribution
1. How to generate linearly separable and inseparable data?
2. MLP: find experimentally a good number of hidden neurons, start with the heuristic
3. The speed of convergence graph (mse on train data vs epoch) is plotted automatically
4. You have to calculate accuracy on training and test data, and also the mse on test data
5. Incremental or batch training?  
Use `train`, it calls the default training function for each type of network (incremental for perceptron, and batch for ADALINE and backpropagation)  
`net=newp (...)`  
`net.trainFcn`
7. The targets should be -1 and 1 => choose appropriate transfer function. In some cases you may need to override the default parameters  
`net.trainParam`

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