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**Assignment 4**  
**Guideline Do-files Codes**

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```
program ml_logit
  args lnf theta
  quietly replace `lnf'=ln(1/(1+exp(-`theta')))) if $ML_y1==1
  quietly replace `lnf'=ln(1-(1/(1+exp(-`theta')))) if
$ML_y1==0
end
```

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```
program ml_probit
  args lnf theta
  tempvar z
  quietly g double `z'=`theta'
  quietly replace `lnf'=ln(normal(`z')) if $ML_y1==1
  quietly replace `lnf'=ln(1-normal(`z')) if $ML_y1==0
end
```

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```
program ml_probit_het
  args lnf theta sigma
  tempvar z s
  quietly g double `s'=exp(`sigma')
  quietly g double `z'=`theta'/`s'
  quietly replace `lnf'=ln(normal(`z')) if $ML_y1==1
  quietly replace `lnf'=ln(1-normal(`z')) if $ML_y1==0
end
```

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