**Conjunction((and)) and Disjunction((or)) in prolog**

For **conjunction**, comma '**,**' is used and it is read as '**and**'.

For **Disjunction**, semicolon '**;**' is used and it is read as '**or**'.

**Example::** Write a program in prolog contain 3 group(a, b, c). a contain 3 degree(9,10,11), b(9,12),c(9,12,10) . the relation is called group.

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| **Files Edit Run Compile Options Setup** | | | |
| **Editor**  **Line1 Col1 Indent Insert Work.pro**   Predicates  group(symbol, integer).  Clauses  group(a ,9).  group(a ,10).  group(a ,11).  group(b ,9).  group(b ,12).  group(c ,9).  group(c ,12).  group(c ,10). | | **----Dialog-----**  Goal: group(a,X),X=9.  Goal: group(c,X), X>=10.  Goal: group(c,X),group(b,X). | |
| **--------Message---------** | **--------Trace----------** | | |
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**Example::** If you have the following facts answer the questions:

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| **Files Edit Run Compile Options Setup** | | | |
| **Editor**  **Line1 Col1 Indent Insert Work.pro**   Predicates  age(symbol, integer).  woman(symbol).  friend(symbol, symbol).  Clauses  woman(sara).  woman(jody).  woman(noor).  friend(sara,jody).  friend(noor, muna).  age(noor,20).  age(sara,25).  age(jody,22). | | **----Dialog-----**  Goal: woman(X),friend(X,Y).  Goal: woman(X);friend(X,Y). | |
| **--------Message---------** | **--------Trace----------** | | |
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**Example::** Given the following facts answer the questions:

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| **Files Edit Run Compile Options Setup** | | | |
| **Editor**  **Line1 Col1 Indent Insert Work.pro**   Predicates  likes(symbol, symbol).  has(symbol, symbol).  friends(symbol, symbol).  Clauses  friends(dick, ed).  has(dick, book).  has(dick, mercedes).  likes(dick, mercedes).  likes(dick, wine).  likes(ed, wine). | | **----Dialog-----**  Goal: friends(dick, ed).  Goal: likes(X, wine).  Goal: likes(X, Y), likes(X, mercedes).  Goal: likes(X, Y) ; likes(X, mercedes). | |
| **--------Message---------** | **--------Trace---------** | | |
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