

NPTEL  
NPTEL ONLINE COURSE  
Discrete Mathematics  
Logic  
Primitive and Compound statements - Part 2  
Prof. S.R.S Iyengar  
Department of Computer Science  
IIT Ropar

We have so far seen what is negation of a statement, what is an OR operator and what is an AND operator. Correct? We also saw that there are two different types of statements called the primitive and the compound. It sounds complicated but a primitive statement simply means one piece of information. Well a compound statement means a pieces of information stitched together with OR or AND. Correct? If it's still complicated you will find it very straightforward once we see this example. Look at this statement. India is a nice place to live. This is true of course, right. Fine so people from India would definitely agree with this. It's not people who live outside India, fine. So India is a nice place to live. People in India are very friendly. That's also known to be true. So here are two statements let's say statement P, India is a nice place to live statement Q people are very friendly in India. These two are primitive statements. Now look at a compound statement. India is a nice place to live and people here are very friendly. Now you see I did a P and Q here. This is called a compound statement. I don't think we need to explain this any further. Just this example has made everything clear.

IIT MADRAS PRODUCTION  
Founded by  
Department of Higher Education  
Ministry of Human Resource Development  
Government of India  
[www.nptel.iitm.ac.in](http://www.nptel.iitm.ac.in)  
Copyrights Reserved