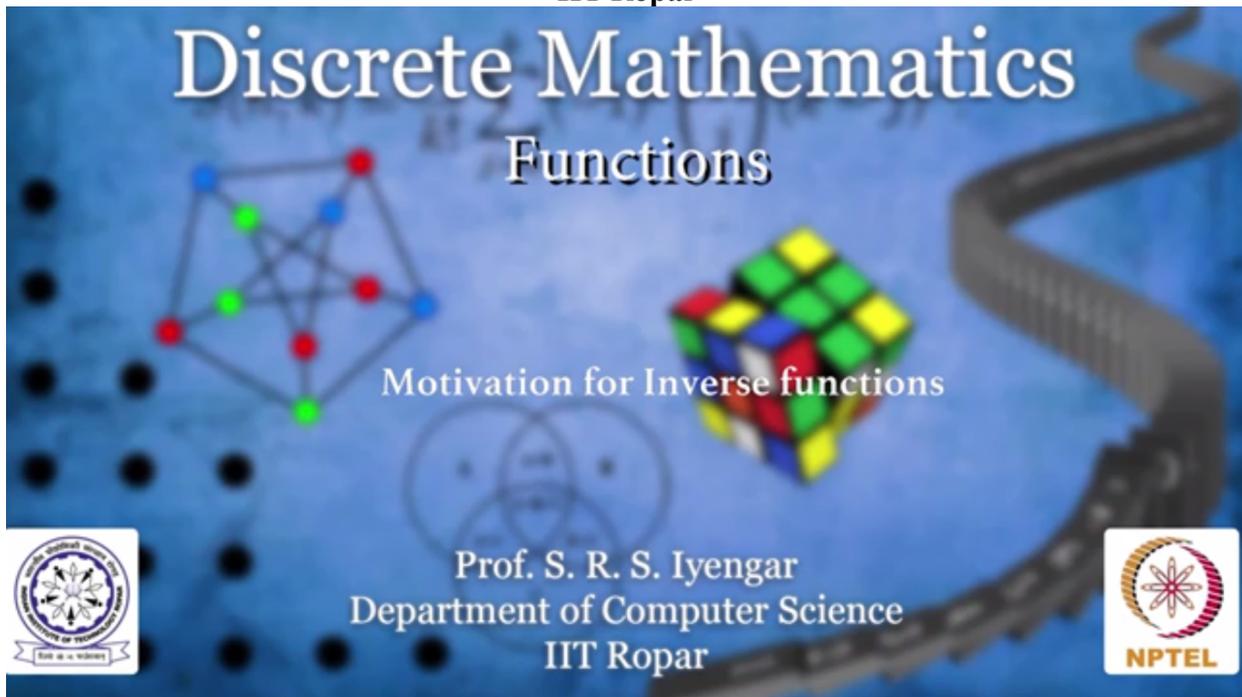


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**Discrete Mathematics  
Functions**

**Motivation for Inverse functions**

**Prof. S. R. S. Iyengar  
Department of Computer Science  
IIT Ropar**

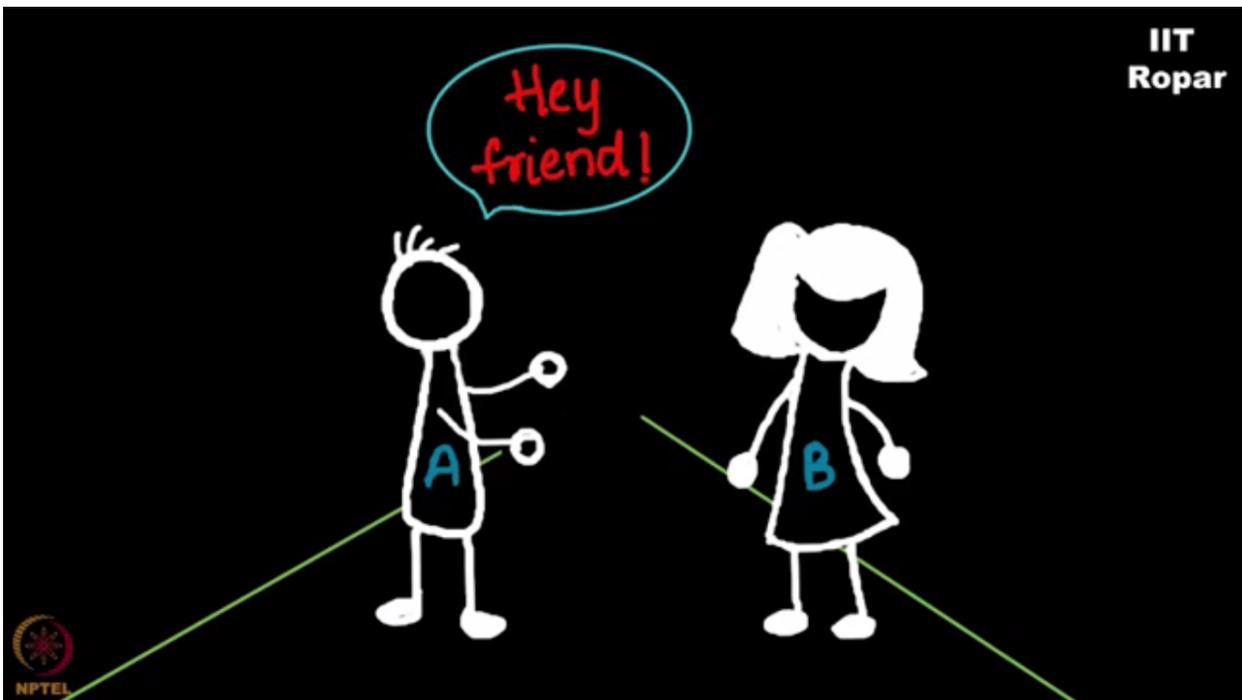
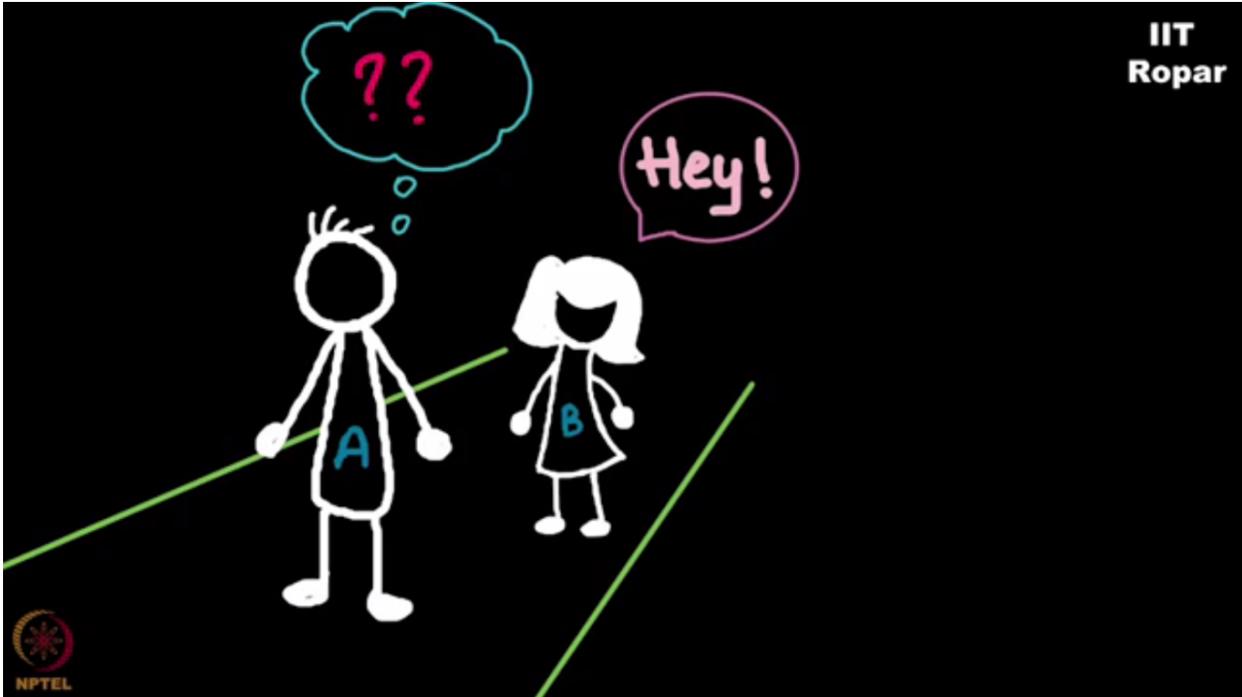


**Discrete Mathematics  
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Motivation for Inverse functions

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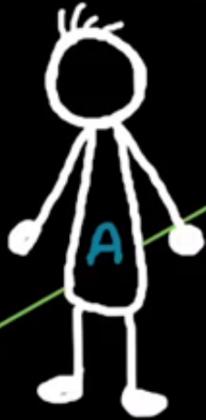




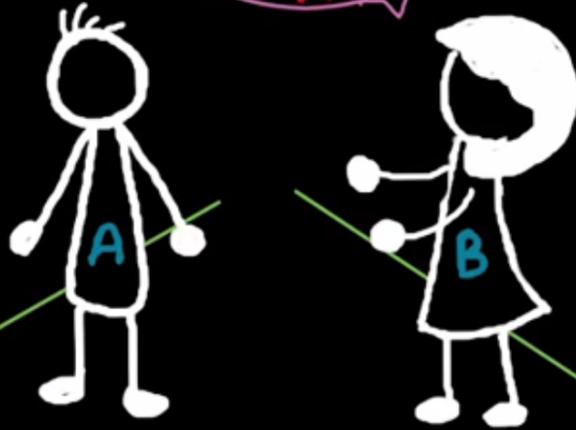
How are  
you?



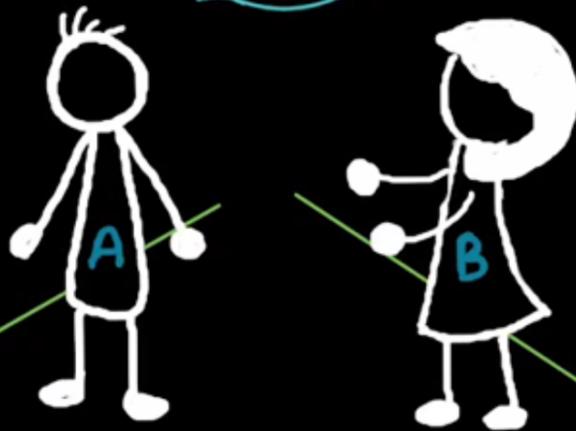
I am  
good.

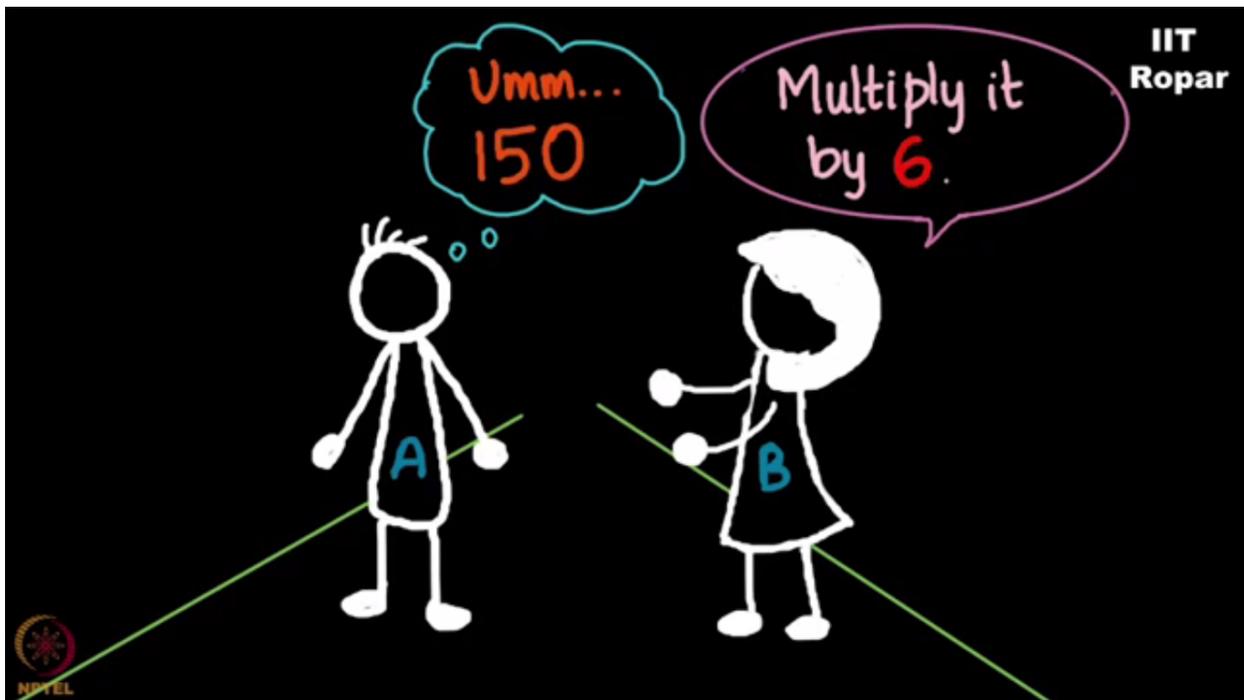
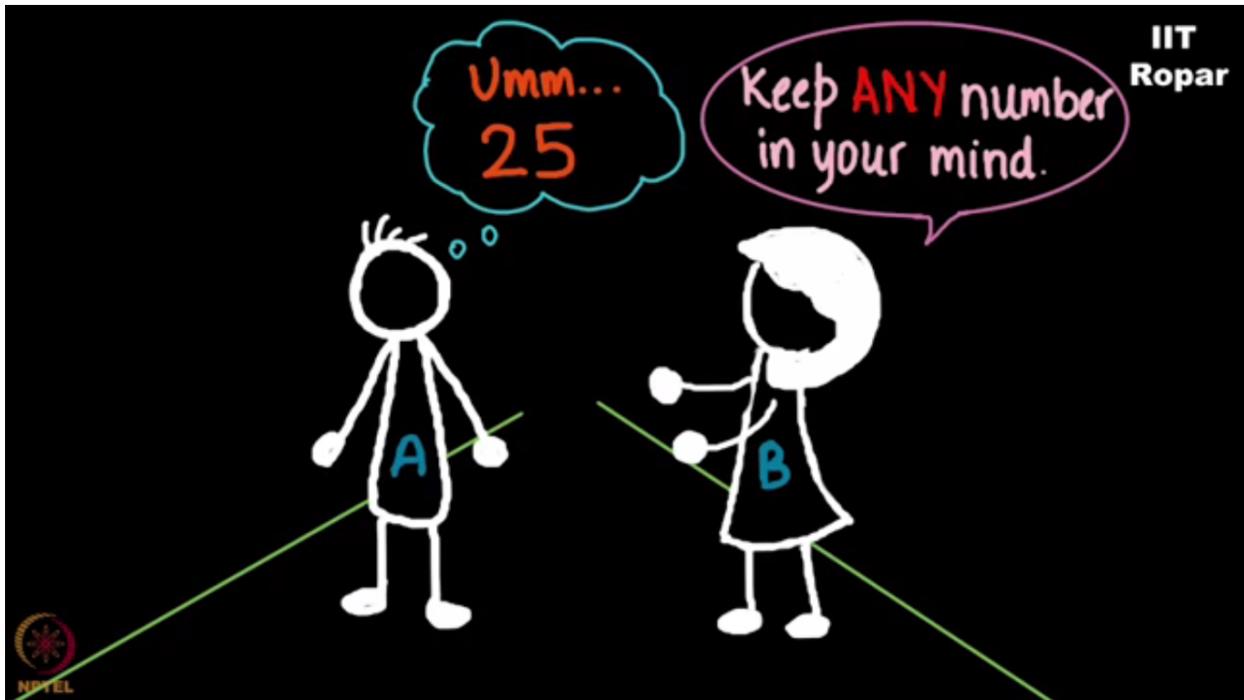


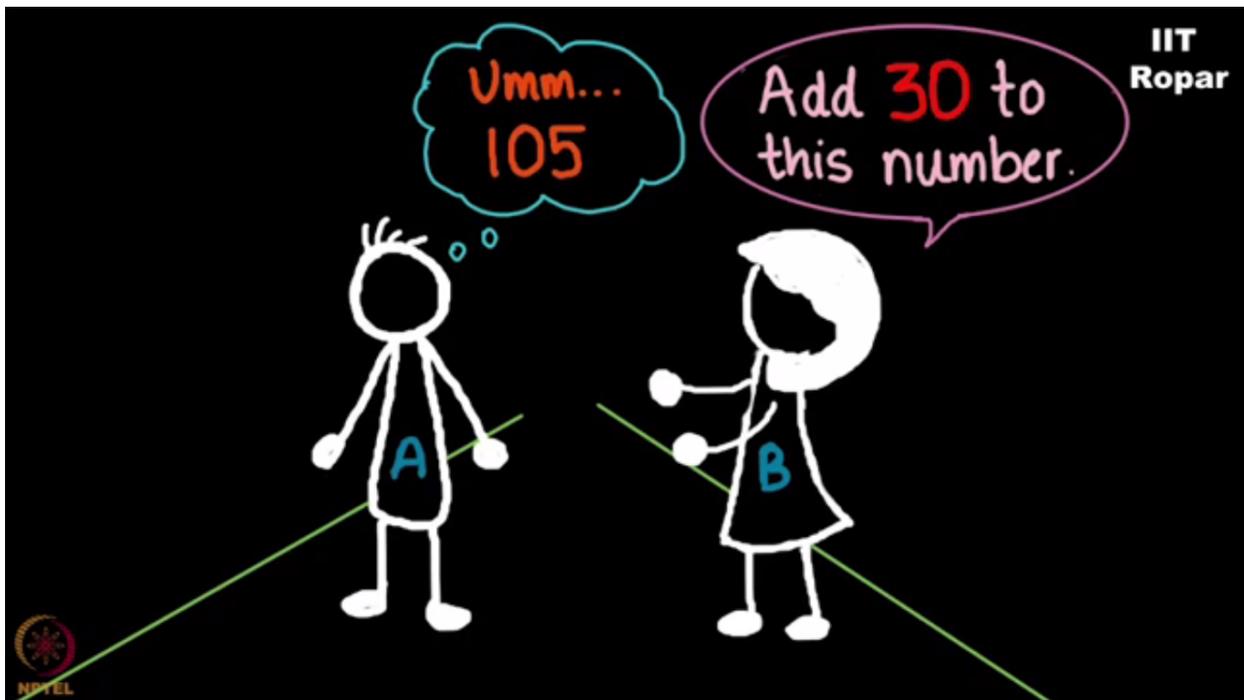
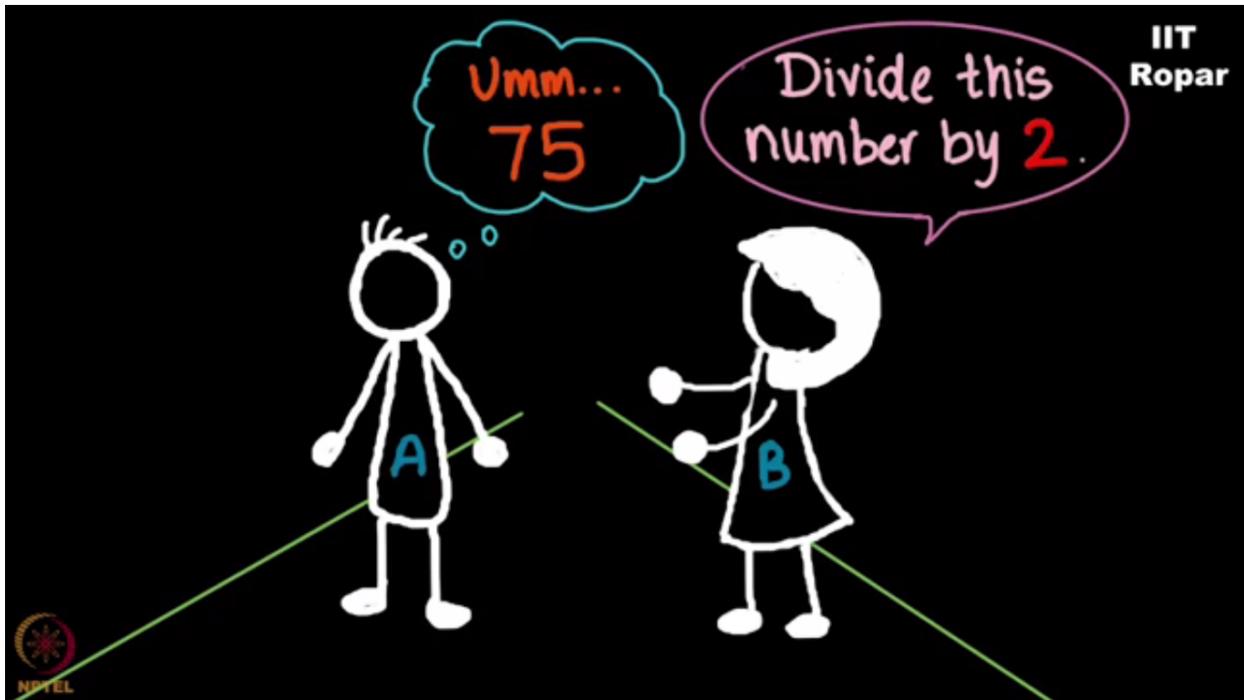
Shall we  
play a game  
??

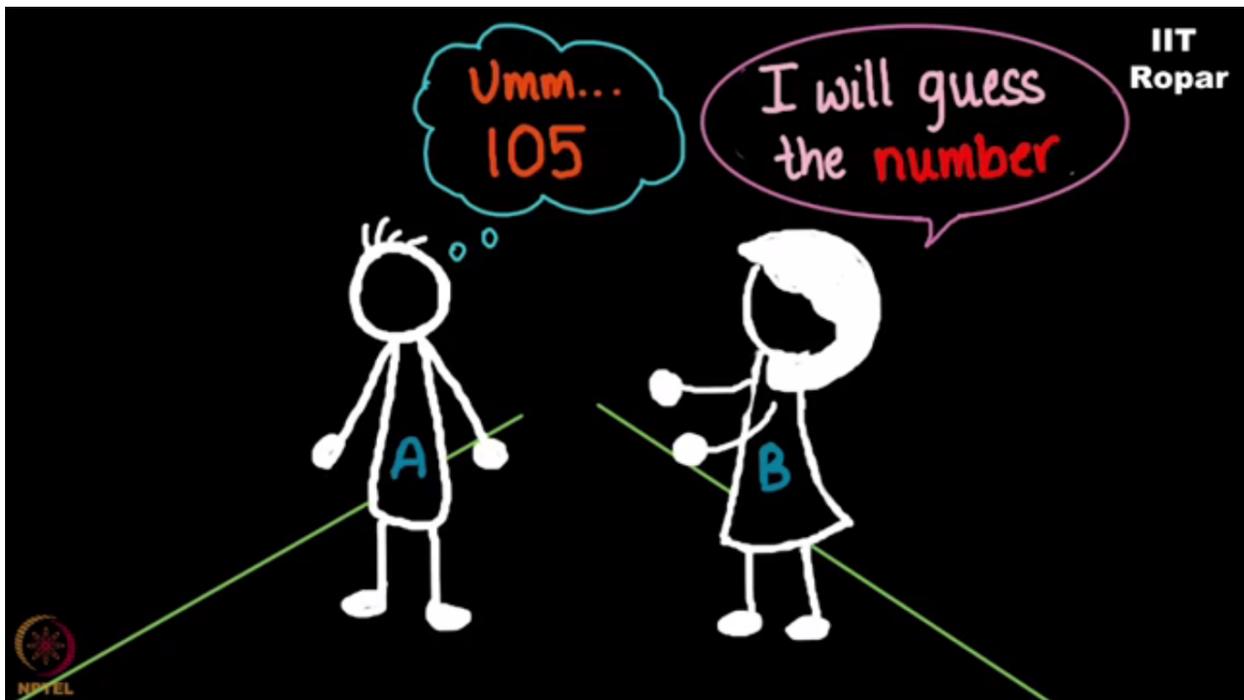
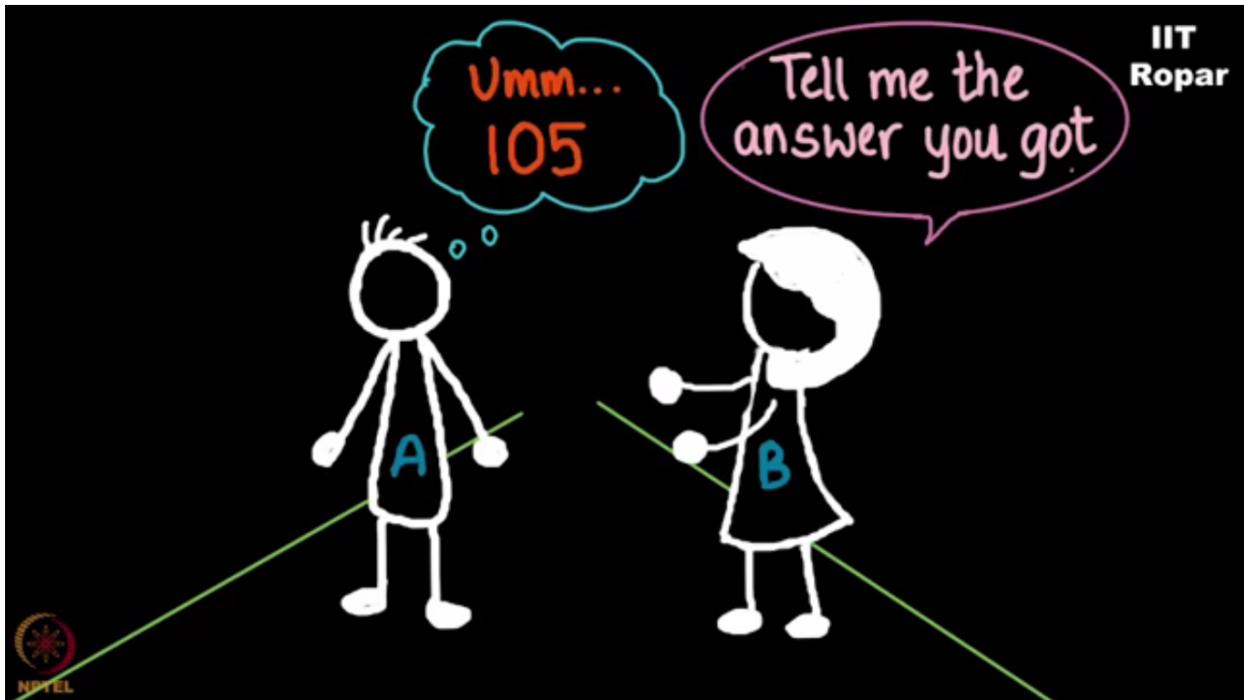


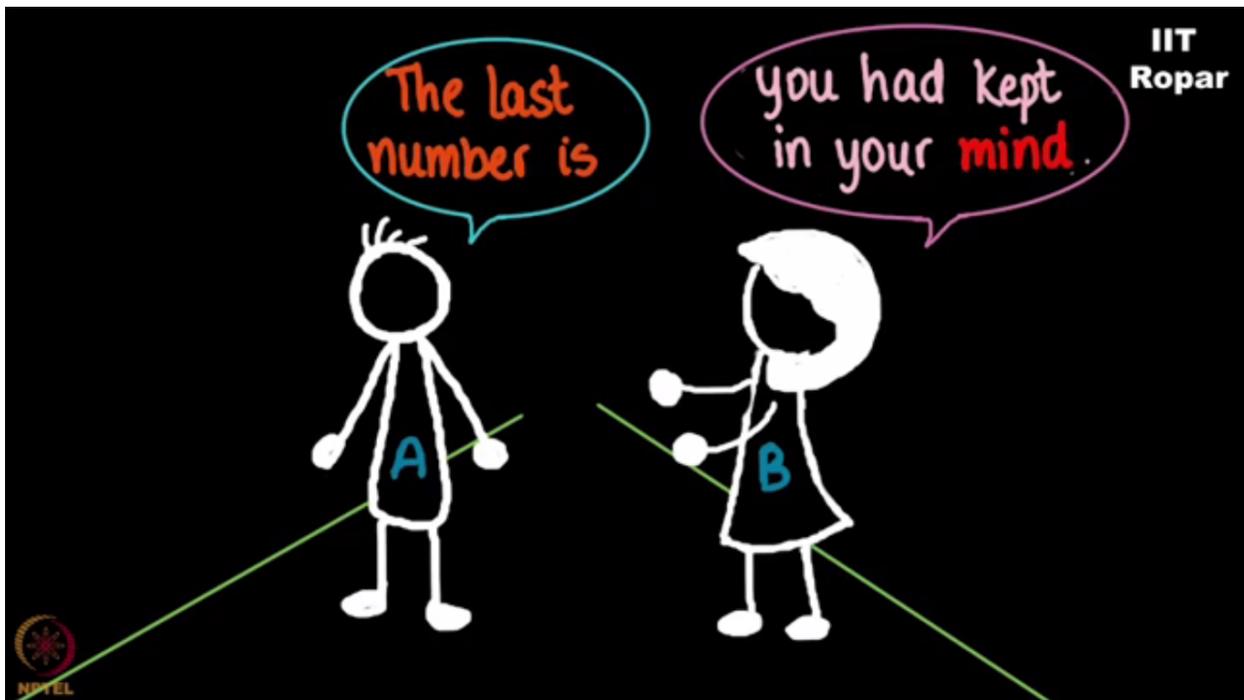
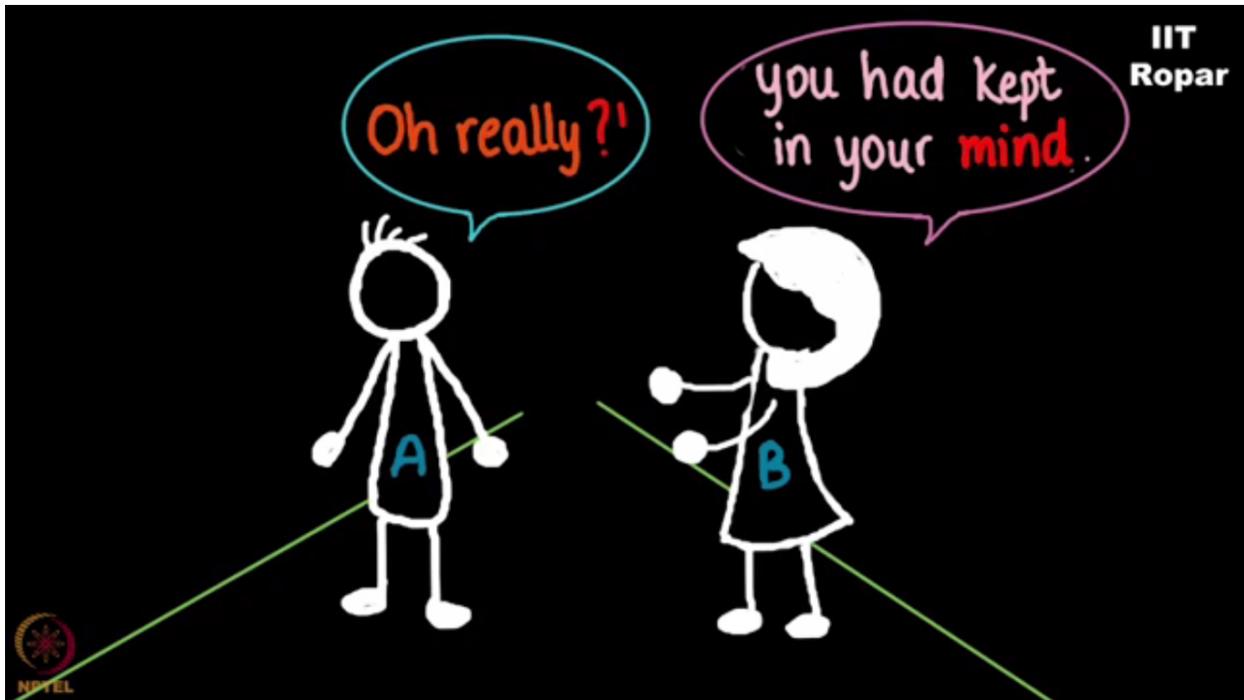
Sure.  
Let's play.

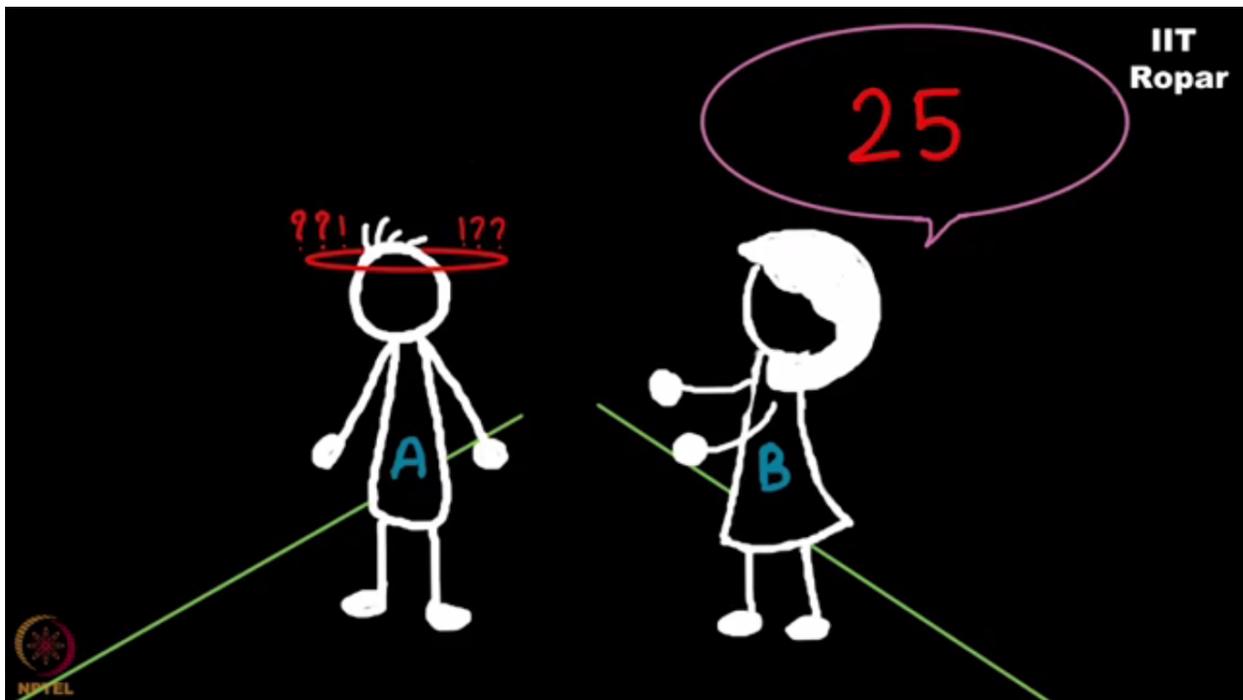
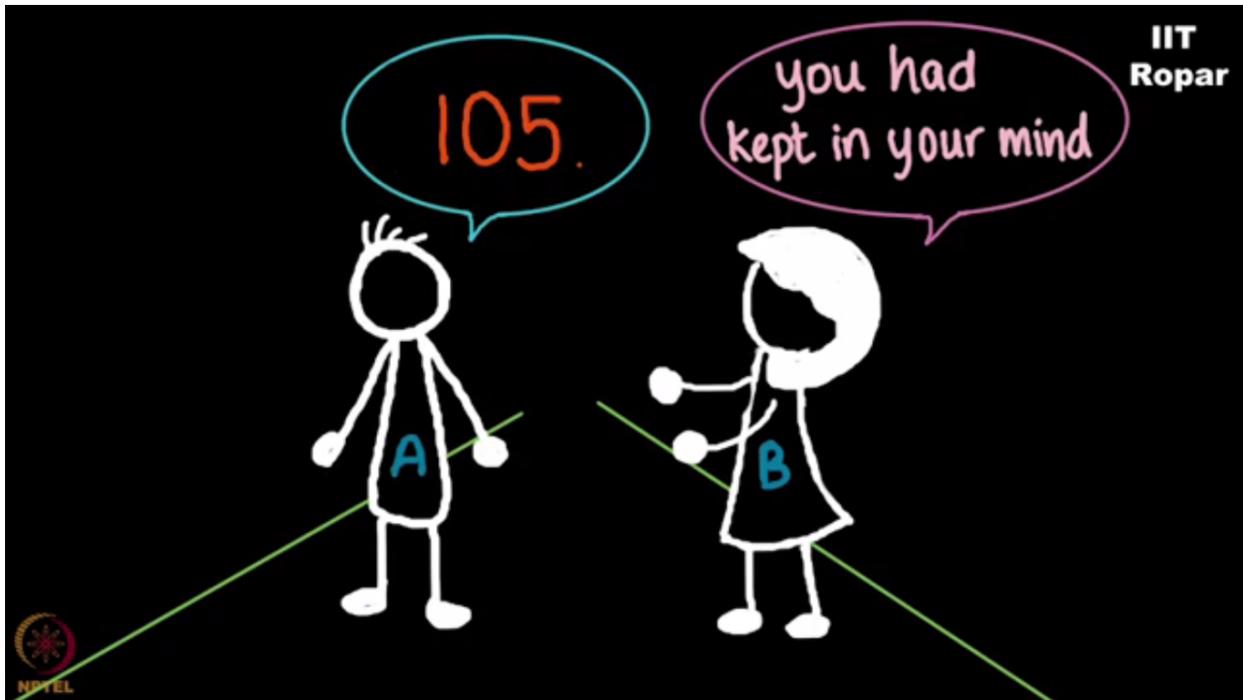




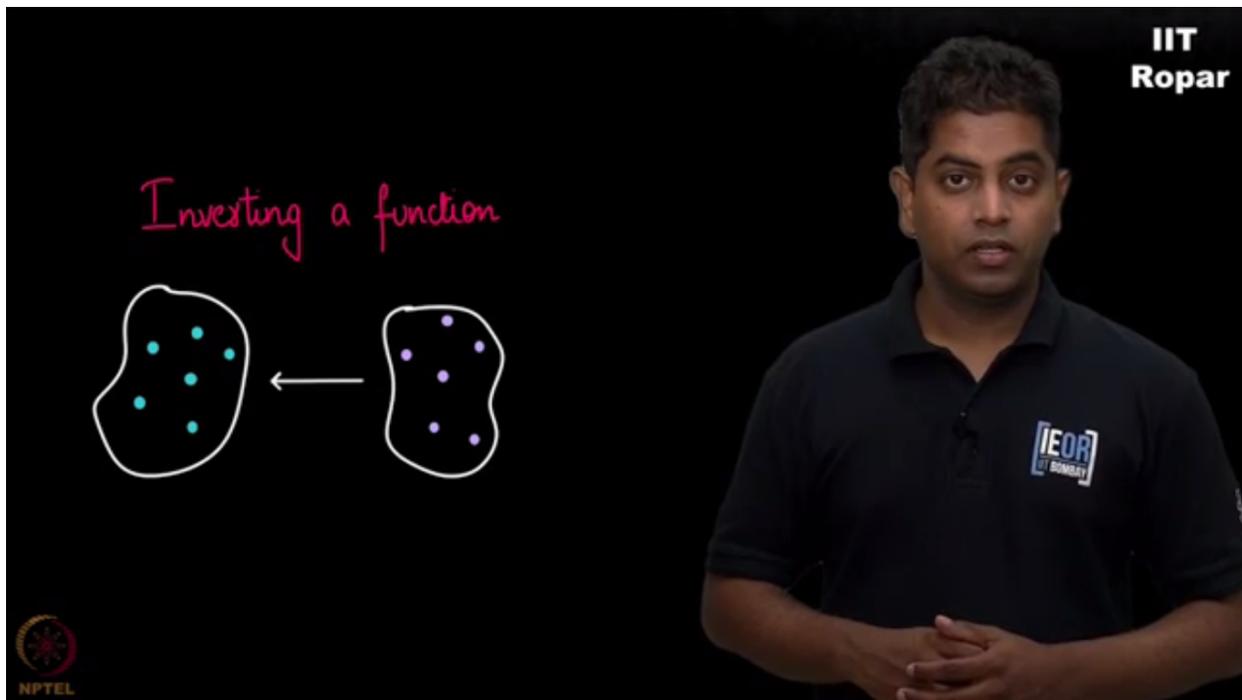








Did you observe what just happened? I think it's very intuitive for you all of what I am going to say next. What just happened is popularly called inverting a function. It's not just going from left to right. There are times when you may want to go from right to left.



But note, if left to right is a function, right to left can also be a function. I say can also be a function because it needn't always be a function. We will see that more in the forthcoming lessons, but just note that we are now going to talk a whole lot about what is called invertibility of a function.



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