

Recursion 01

Sir may I talk to you for five minutes? Yeah sure. Sir actually I would like to show you this comedy scene. I see that you are always obsessed with movies, when are you going to discuss with me something technical. Sir, actually you are sort of person who actually sees computing in every walk of life, this is something we generally use in computing, aha such a concept is there in this clip so I would like to show you. Sure sure show me. This clip is it? Yeah yes sir. Sir, did you just see what happened here? Isn't this the concept we use in computing namely the recursion? Very much, so that's a good find vidya, this is a very interesting scene so I will do one thing I will try explaining what exactly is happening here huh? Concentrate look, there are several people right? There are some let's say fifteen people, yes sir correct? And then this very person, first person asks a question to his neighbour right? And then he asks that question to his neighbour so this kind of a caste gate continuous you see and goes till the first person and some where here this fellow knows what is the answer, he tells him the answer and the caste gate comes back and hits the source and there you are bingo! You have the answer. Right? So this is exactly sort of how recursion works, you keep passing on the requirement was function inside a function and it goes inside and inside well within the last step and comes back and there you are with the answer that's a very good observation vidya very nice, very creative of you. Thank you sir. Recursion is a very powerful tool in computer science and we are going to illustrate that with a standard example called computing factorial of a number.