

- * Introduces recursion in C, highlighting its importance in exams and interviews.
- * Defines recursion: a function calling itself, either directly or indirectly.
- * Explains the concept with an analogy (calling a student named Rahul).
- * Emphasizes the crucial role of the base condition (termination condition) to prevent infinite loops and stack overflow errors.
- * Illustrates recursion using the factorial calculation example.
- * Explains the importance of the base condition in preventing infinite recursion.
- * Uses a simple "display" function example to demonstrate recursion's execution flow.
- * Details the step-by-step execution of the "display" function, tracking stack frames and variable values.
- * Shows how the program moves forward during recursion and backward after reaching the base condition.
- * Explains how neglecting the base condition leads to stack overflow errors.
- * Briefly mentions different types of recursion (direct, indirect, tail, non-tail) to be covered in later videos.

- * Promises to discuss advantages and drawbacks of recursion in subsequent videos.
- * Concludes by encouraging viewers to watch the next video for further explanation and examples.