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## C Programming

Duration- 4 Weeks

### What is C ?

- Execution of C Program
- History
- Structure of C Program

### Variables and Keywords:

- Character Set
- Identifier
- Variable
- Keywords
- Escape Sequence Characters

### Constants:

- Real Constant
- Integer Constant
- Character Constant
- String Constant

### Data Types:

- Data Types
- Qualifier
- Enum
- Typedef

### Operators:

- Assignment Operator
- Arithmetic Operators
- Logical Operators
- Relational Operators
- Shorthand Operators
- Unary Operators
- Conditional / Ternary Operator
- Biwise Operators
- Operator Precedence and Associativity
- If Statement
- If-Else Statement
- Nested If-Else
- Switch Case



## **Looping Statements**

- Looping / Iterative Statements
- while
- do while
- for loop
- Break Statement
- Continue Statement
- Goto

## **Functions:**

- Function call by passing value
- Function call by returning value
- Function call by passing and returning value
- Recursion

## **Storage Classes:**

- Storage Classes
- Automatic Storage Class (auto)
- Register Storage Class (register)
- Static Storage Class (static)
- External Storage Class (extern)

## **Array:**

- Array
- Single / One Dimensional Array
- Two Dimensional Array

## **Structure:**

- Structure
- Array in Structures
- Structure with Array
- Difference between array and structure

## **Pointer**

## **Union:**

- Union
- Difference between structure and union
- Strings
- File Handling