

Back End Developer:- C, C++

<u>C</u>		
<u>C INTRODUCTION</u>	<u>'C' TOKENS</u>	
 Types of Languages Evolution of 'C' Language Structure of a 'C' Program 'C' Program development life cycle Executing and Debugging a 'C' Program 	 Keywords and Identifiers Operators Constants Variables Data Types Precedence of Operators Scope and Lifetime of Variables 	
CONTROL STATEMENT AND EXPRESSIONS	<u>LOOPING</u>	
 Decision Making using if statement Types of ifelse block Switch case Block Arithmetic Expressions Evaluation of Expressions GOTO statement 	 Concept of Loop For loop While loop Do while loop Jumping in Loop break and continue statement 	
ARRAYS AND STRING	<u>FUNCTIONS</u>	
 Introduction of Array One - D Array Two - D Array Multidimensional Array Dynamic Arrays Implementing String Variables String handling Functions 	 Concept of Function User-defined Function System Defined Function Types of parameter passing in a function 	
<u>POINTERS</u>	STRUCTURE AND UNIONS	
 Need of Pointers Types of Pointers Pointer Expression Arrays of Pointers Pointers and Functions 	 Need of Structure Implementing Structure Variable Arrays of Structure Structure within Structure Introduction of Unions Difference between Structure and Unions 	

Website: www.nextgenindore.com

Contact Number: +919752683018, +917898460275

Address: Scheme No 78 Main Road 1st Floor, Front of Union Bank,

Nearby Utsah Restaurant & Mahindra Showroom, Indore, Madhya Pradesh 452010, INDIA



	FILE HANDLING USING 'C'	DYNAMIC MEMORY ALLOCATION
• File •	Opening and Closing File Input / Output operations on Random Access to Files Command Line Arguments	 Concept of Dynamic Allocation Implementing Malloc and Calloc Functions Releasing the free space
	STORAGE CLASSES AND PRE-PROCESSOR	
•	Introduction of Storage Class Types of Storage Classes Introduction of Pre-processor Macro Substitution File Inclusion	Stituit

<u>C++</u>		
C++ INTRODUCTION	INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING	
 What is C++? Why Use C++ Difference between C and C++ C++ Syntax 	 Concept of OOP Features of OOP Structure of 'C++' program Executing and Debugging a 'C++' Program 	
'C++' TOKENS AND TYPE CASTING	CLASSES & OBJECTS	
 Keywords and Identifiers Operators Constants Variables Data Types Precedence of Operators Scope and Lifetime of Variables 	 Classes & Object Specifier Defining data members and member functions Array of objects Managing console I/O 'C++' stream classes Formatted and unformatted console I/O Usage of manipulators 	
FUNCTION IN 'C++'	CONSTRUCTORS AND DESTRUCTOR	
Call by reference, Return by referenceFunction overloading and	 Concept of Constructor Types of Constructors Memory allocation (new and delete) 	

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default arguments	Usage of destructor
OPERATOR OVERLOADING	<u>INHERITANCE</u>
 Overloading Unary and Binary operators Overloading using the friend function 	 Types of inheritance Virtual base classes and abstract base classes Constructor and destructor in derived class
WORKING WITH FILES	EXCEPTION HANDLING
 File operations File pointer and their manipulation File updation with random access 	 Various Exception Handling classes Implementing try and catch block Use of throw keyword

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