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C Programming Course Contents
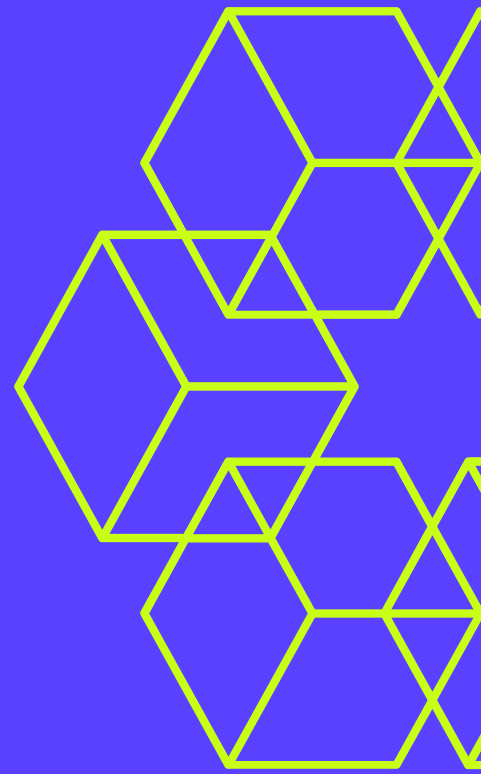
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CHAPTER 1 : INTRODUCTION TO C PROGRAMMING

- History of C programming
- Features of C programming
- Difference between C and other programming languages
- Overview of C programming structure
- Basic syntax and data types in C programming

CHAPTER 2 : VARIABLES AND DATA TYPES

- Declaring and initializing variables
- Basic data types in C programming
- Derived data types in C programming
- Type modifiers in C programming
- Type casting in C programming
- User-defined data types
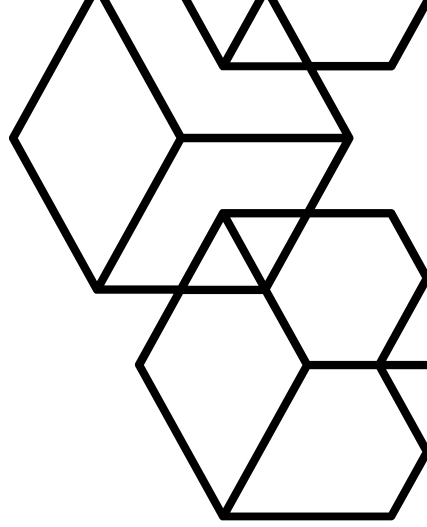
CHAPTER 3 : OPERATORS AND EXPRESSIONS

- Arithmetic operators in C programming
- Relational operators in C programming
- Logical operators in C programming
- Bitwise operators in C programming
- Conditional operator in C programming
- Assignment operators in C programming
- Operator precedence in C programming

CHAPTER 4 : CONTROL STRUCTURES

- Decision-making statements in C programming
- Looping statements in C programming
- Jumping statements in C programming
- Switch statement in C programming
- Nested control statements in C programming
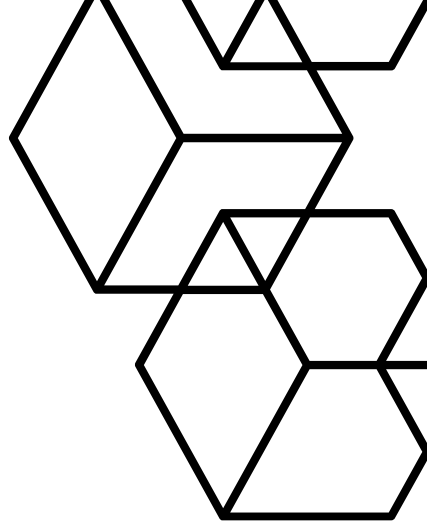
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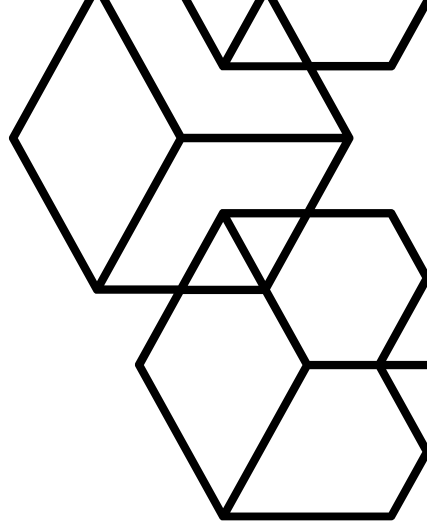
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CHAPTER 5 : FUNCTIONS IN C PROGRAMMING

- Defining and calling functions in C programming
- Passing arguments to functions in C programming
- Return statement in C programming
- Types of functions in C programming
- Predefined functions in C programming

CHAPTER 6 : ARRAYS AND STRUCTURES

- Declaring and initializing arrays in C programming
- Types of arrays in C programming
- Multi-dimensional arrays in C programming
- Structures in C programming
- Defining and accessing structure members
- Arrays of structures in C programming

CHAPTER 7 : POINTERS

- Pointer declaration in C programming
- Pointer arithmetic in C programming
- Pointers and arrays in C programming
- Passing pointers to functions in C programming
- Dynamic memory allocation in C programming
- Pointer to a structure in C programming
- Function pointers in C programming

CHAPTER 8 : FILE HANDLING

- File handling in C programming
- Opening and closing files in C programming
- File input/output operations in C programming
- Sequential and random access files in C programming
- Error handling during file operation in C programming