PHASE 1 – Absolute Beginner Level (Strong Foundation)

1. C programing vs code ,compiler
2. Laguage first program (hello world)
3. Data type in C
4. What is variable
5. Comment in C
6. Keywords in C
7. Format Specifiers (%d, %f, %c, %s etc.)
8. Input & Output (printf, scanf properly explained)
9. Escape Sequences (\n, \t, etc.)
10. Operators in C (Arithmetic)
11. Relational Operators
12. Logical Operators
13. Assignment Operators
14. Increment & Decrement Operators
15. Operator Precedence & Associativity

PHASE 2 – Decision Making & Control Flow

1. if Statement
2. if-else Statement
3. Nested if-else
4. else-if Ladder
5. switch Statement
6. Ternary Operator

PHASE 3 – Loops (Very Important)

1. while Loop
2. do-while Loop
3. for Loop
4. Nested Loops
5. Break Statement
6. Continue Statement
7. Real Practice: Print Patterns (Stars, Numbers)
8. Fibonacci Series Program
9. Prime Number Program
10. Palindrome Number

PHASE 4 – Arrays

1. Introduction to Arrays
2. 1D Array
3. Taking Input in Array
4. Sum / Average of Array
5. Largest & Smallest Element
6. 2D Array (Matrix Basics)
7. Matrix Addition
8. Matrix Multiplication

PHASE 5 – Strings

1. Introduction to Strings
2. String Input & Output
3. String Functions (strlen, strcpy, strcat, strcmp)
4. Reverse a String
5. Check Palindrome String

PHASE 6 – Functions

1. What is Function
2. Function Declaration & Definition
3. Types of Functions
4. Call by Value
5. Recursion
6. Factorial using Recursion

PHASE 7 – Pointers (Game Changer Part)

1. Introduction to Pointers
2. Pointer & Variable Relationship
3. Pointer Arithmetic
4. Pointer with Array
5. Pointer with Function

PHASE 8 – Advanced C

1. Structures
2. Array of Structures
3. Union
4. typedef

5. File Handling in C
6. Dynamic Memory Allocation (malloc, calloc, free)
7. Linked List Basics

 FINAL LEVEL – Mini Projects

1. Simple Calculator
2. Student Record Management
3. Bank Management System (Mini Project)
4. Quiz Game in C
5. Library Management System