hack tech

WELCOME TO OUR

C PROGRAMMING COURSE

Week 1: Introduction to C Programming

- Overview of C programming language
- Setting up a C programming environment
- Basic program structure and syntax

Week 2: Data Types and Variables

- Understanding data types in C
- Declaring and initializing variables
- Basic arithmetic and logical operators

Week 3: Conditional Statements

- Using if-else statements in C
- Switch statements and conditional operators

Week 4: Loops and Iteration

- Introduction to loops in C (for, while, do-while)
- Loop control statements (break, continue)
- Nested loops and iteration

Week 5: Functions and Modular Programming

- Creating and calling functions in C
- Passing arguments to functions
- Understanding function return values

Week 6: Arrays and Pointers

- Declaring and initializing arrays in C
- Understanding array indexing and memory allocation
- Pointers and memory addresses in C

Week 7: Strings and Character Arrays

- Manipulating strings in C
- String formatting and output
- Character arrays and pointers to characters

Week 8: File Input and Output

- Reading from and writing to files in C
- Understanding file I/O streams
- Error handling and file management

Week 9: Dynamic Memory Allocation

- Understanding dynamic memory allocation in C
- Using malloc(), calloc(), and realloc() functions
- Freeing memory and avoiding memory leaks

Week 10: Advanced Topics in C

- Data structures in C (structs, linked lists, stacks, queues)
- Preprocessor directives and macros
- Multidimensional arrays and matrices in C.