

# C Language Tutorial

## (Basic to Advanced)

**Topics** to be covered :

- Installation + Setup
- Chapter 1 - Variables, Data types + Input/Output
- Chapter 2 - Instructions & Operators
- Chapter 3 - Conditional Statements
- Chapter 4 - Loop Control Statements
- Chapter 5 - Functions & Recursion
- Chapter 6 - Pointers
- Chapter 7 - Arrays
- Chapter 8 - Strings
- Chapter 9 - Structures
- Chapter 10 - File I/O
- Chapter 11 - Dynamic Memory Allocation

## Loop Control Statements

### (Chapter 4)

#### 1. Syntax of 3 Loops

```
# include <stdio.h>

int main () {
    //for loop
    for(int i=1; i<=100; i++) {
        printf("%d\n", i);
    }

    //while loop
    int i=1;
    while(i<=100) {
        printf("%d\n", i);
        i++;
    }

    //do while loop
    i = 1;
    do {
```

```
        printf("%d\n", i);  
        i++;  
    } while(i<=100);  
  
    return 0;  
}
```