

# C Programming Notes

## Introduction to C Programming

C is a powerful general-purpose programming language developed by Dennis Ritchie. It is widely used for system programming, application development, and embedded systems.

## Basic Structure of C Program

1. Header Files
2. Main Function
3. Variable Declaration
4. Program Logic
5. Return Statement

## Example Program

```
#include <stdio.h>
int main() {
    printf("Hello World");
    return 0;
}
```

## Data Types

- int
- float
- char
- double

## Loops in C

- for loop
- while loop
- do while loop

## Functions

Functions are reusable blocks of code used to perform specific tasks.