



Dr.SNS RAJALAKSHMI COLLEGE OF ARTS AND SCIENCE



**(AUTONOMOUS)
COIMBATORE-641049**

**Accredited by NAAC(Cycle III) with “A+” Grade
Recognised by UGC, Approved by AICTE, New Delhi and
Affiliated to Bharathiar University, Coimbatore.**

DEPARTMENT OF COMPUTER SCIENCE

21UCU401 : PROGRAMMING IN C

I YEAR - I SEMESTER

UNIT 1 – INTRODUCTION

TOPIC: Introduction to C, Getting started with C



- ✓ **Introduction : C**
- ✓ **Facts about C language**
- ✓ **Uses of C Programming**
- ✓ **Why C was popular ?**
- ✓ **Features of C Programming**
- ✓ **Advantages and Disadvantages**
- ✓ **History of C Language**
- ✓ **Why we learn C language?**



Introduction : C

Basic Computer Language

- ❑ C is a powerful general-purpose programming language.
- ❑ It can be used to develop software like operating systems, databases, compilers, and so on.
- ❑ C programming is an excellent language to learn to program for beginners.



Contd.

- C is a programming language developed at AT & T's Bell Laboratories of USA in 1972.
- It was designed and written by a man named Dennis Ritchie.
- In the late seventies C began to replace the more familiar languages of that time like PL/I, ALGOL, etc
- ANSI C standard emerged in the early 1980s, this book was split into two titles: The original was still called **Programming in C**, and the title that covered ANSI C was called **Programming in ANSI C**.



Facts about C Language

- ✓ In **1988**, the **American National Standards Institute (ANSI)** had formalized the C language.
- ✓ C was invented to write **UNIX** operating system.
- ✓ C is a successor of 'Basic Combined Programming Language' (BCPL) called **B language**.
- ✓ **Linux OS, PHP, and MySQL** are written in C.
- ✓ C has been written in assembly language.



Uses of C Programming Language

C was used for developing system applications, e.g. :

Database System

Language Interpreters

Compilers and Assemblers

Operating System

Network drivers

Word processors



Why C was popular ?

- ✓ One of the early programming languages.
- ✓ Still, the best programming language to learn quickly.
- ✓ C language is reliable, simple, and easy to use.
- ✓ C language is a structured language.
- ✓ Modern programming concepts are based on C.
- ✓ It can be compiled on a variety of computer platforms.



Features of C Programming Language



- ❑ C is a robust language with a rich set of built-in functions and operators.
- ❑ Programs written in C are efficient and fast.
- ❑ C is highly portable; programs once written in C can be run on other machines with minor or no modification.
- ❑ C is a collection of C library functions; we can also create our function and add it to the C library.
- ❑ C is easily extensible.



Advantages of C Language



- ❑ C is the building block for many other programming languages.
- ❑ Programs written in C are highly portable.
- ❑ Several standard functions are there (like in-built) that can be used to develop programs.
- ❑ C programs are collections of C library functions, and it's also easy to add functions to the C library.
- ❑ The modular structure makes code debugging, maintenance, and testing easier.



Disadvantages of C language

- ❑ C does not provide Object Oriented Programming (OOP) concepts.
- ❑ There are no concepts of Namespace in C.
- ❑ C does not provide binding or wrapping up of data in a single unit.
- ❑ C does not provide Constructor and Destructor.

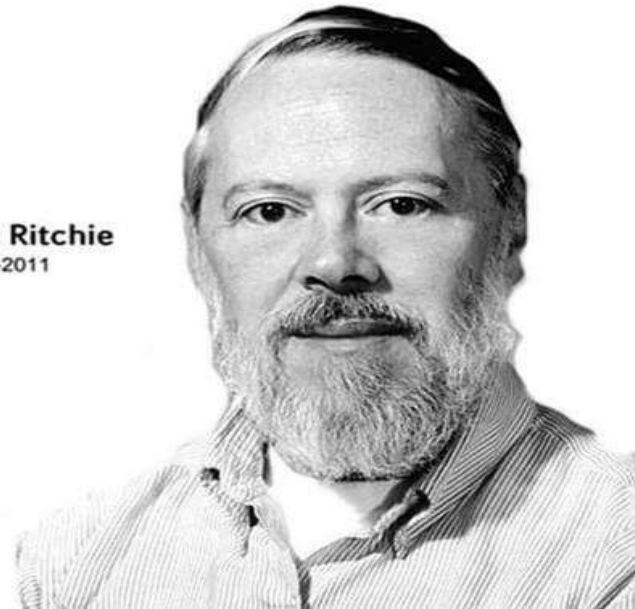


History of C language



- ✓ C was developed and written by **Dennis M. Ritchie** in the year **1972**, and hence he is known as the **founder of C**.
- ✓ He is also called **father of C**.

Dennis Ritchie
1941-2011





History of C contd.



ALGOL 1960



BCPL 1967



B 1970



C 1972



K&R C 1978



ANSI C 1989



ANSI/ISO C 1990





Why we learn C language?

- 'C' is a base language for many programming languages. So, learning 'C' as the main language will play an important role while studying other programming languages.
- 'C' is a **structured programming language** in which program is divided into various modules.
- 'C' contains **32 keywords**, various data types and a set of powerful built-in functions that make programming very efficient.

QUERIES ???

(if any..)



17

Colourful Thank You Slide Design

T H A N K Y O U



9/13/2022

SNS DESIGN THINKERS/ Dr.SNSRCAS / CS /
MBA-Introduction to ERP /UNIT-1/ Ms
R.SARANYA