"C"-Language

Introduction

- C is most popular general-purpose programming Language.
- structured programming language.
- C is a base for the programming.
- If you know 'C,' you can easily gain the knowledge of the other programming languages that uses the concept of 'C'.

History of C language

"ALGOL"

- The base or father of programming languages is 'ALGOL.'
- It was first introduced in 1960.
- 'ALGOL' was used on a large basis in European countries.
- 'ALGOL' introduced the concept of structured programming to the developer community.
- ALGOL stands for "**Algorithmic Language**"

BCPL

- BCPL stands for Basic Combined Programming Language found in 1967.
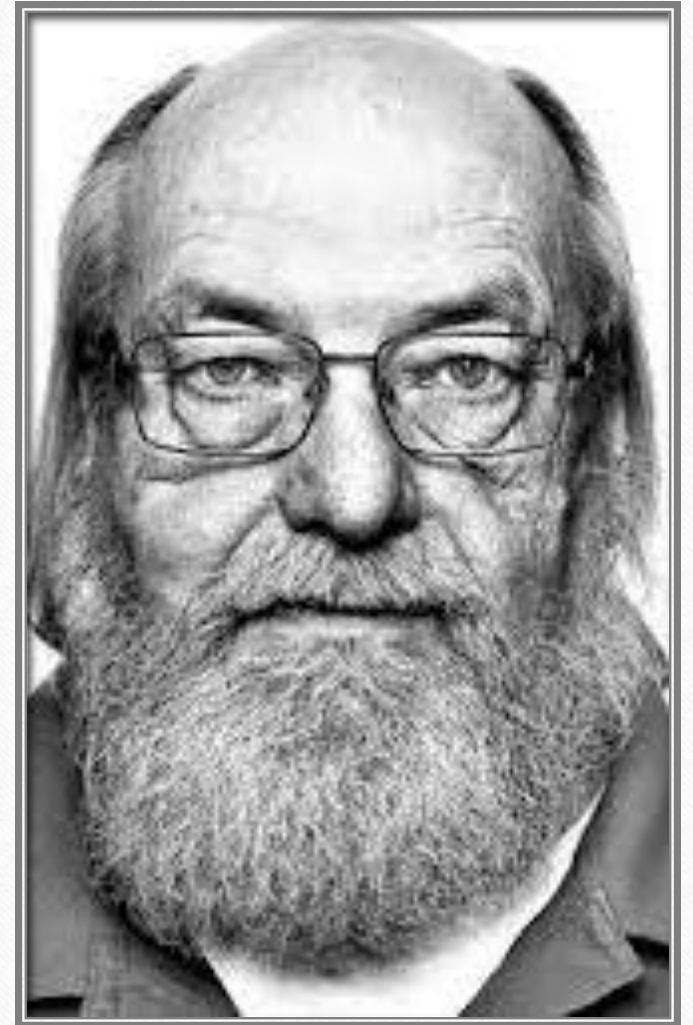- BCPL was designed and developed by Martin Richards, especially for writing system software.

"B"-Language

In 1970 a new programming language called 'B' was introduced by Ken Thompson.

It contained multiple features of 'BCPL.'

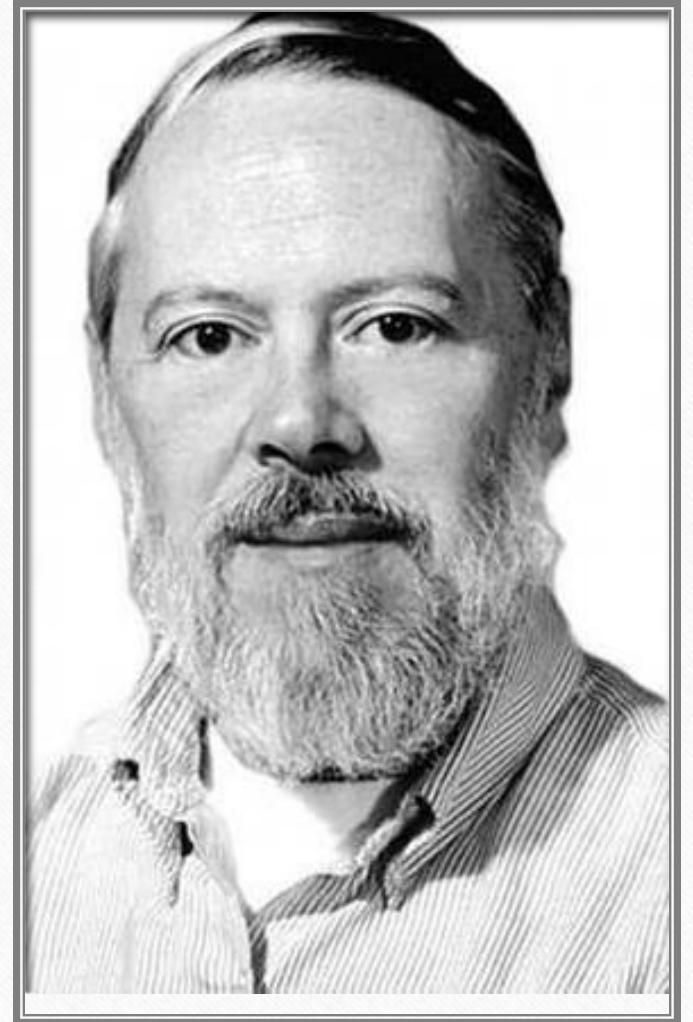Both the 'BCPL' and 'B' were system programming languages.

"C"-Language

In 1972, a great computer scientist **Dennis Ritchie** created a new programming language called 'C' at AT&T and Bell Laboratories in USA.

It was created from 'ALGOL', 'BCPL' and 'B' programming languages.

'C' programming language contains all the features of these languages and many more additional concepts that make it unique from other languages.

- 'C' is a powerful programming language which is strongly associated with the UNIX operating system.

- American National Standards Institute (ANSI) defined a commercial standard for 'C' language in 1989.

- it was approved by the International Standards Organization (ISO) in 1990.

- 'C' programming language is also called as 'ANSI C'.

Importance of C.

1. 'C' language is widely used in embedded systems.

2. It is used for developing system applications.

3. It is widely used for developing desktop applications.

4. Most of the applications by Adobe are developed using 'C' programming language.

5. It is used for developing browsers and their extensions. Google's Chromium is built using 'C' programming language.

6. It is used to develop databases. MySQL is the most popular database software which is built using 'C'.

7. It is used in developing an operating system. Operating systems such as Apple's OS X, Microsoft's Windows, and Symbian are developed using 'C' language. It is used for developing desktop as well as mobile phone's operating system.

8. It is used for compiler production.

9. It is widely used in IOT applications.