Introduction to C Programming

➢ BASICS,

➢ FEATURES,

➢ FIRST PROGRAM

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What is C Programming?

➢Developed by **Dennis Ritchie** at Bell Labs in **1972**

➢General-purpose, procedural programming language

➢Foundation for many modern languages (C++, Java, Python)

Features of C Language

- Simple and efficient
- Fast execution
- Low-level memory access
- Rich set of built-in operators
- Portable and machine-independent
- Modular and structured language

Structure of a C Program

- Header files

- main() function

- Variable declarations

- Statements and expressions

- Comments

SAMPLE PROGRAM

#include <stdio.h>

```c
int main() {
    printf("Hello, World!");
    return 0;
}
```

Basic C Syntax

- Keywords

- Identifiers

- Data types

- Constants and variables

- Operators

- Semicolons and curly braces

Data Types and Variables

- **Primary types:** int, float, char, double

- **Declaration syntax:** int a = 10;

- **Type modifiers:** short, long, signed, unsigned

Applications of C

Operating systems (e.g., UNIX)

Embedded systems

Compilers and interpreters

System-level programming

Thank You