



SNS COLLEGE OF TECHNOLOGY



Coimbatore – 35

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF INFORMATION TECHNOLOGY

23ITT101 – PROGRAMMING IN C & DATA STRUCTURES I YEAR - II SEM

UNIT I – INTRODUCTION TO C

CONSTANTS & VARIABLES



C TOKENS

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KEYWORDS & IDENTIFIERS



Keywords

- ✍ Keywords are those words whose meaning is already defined by Compiler.
- ✍ They cannot be used as Variable name.
- ✍ C keywords are also called as Reserved words.
- ✍ These are the predefined that have special meanings to the compiler. These are part of the syntax and cannot be used as identifiers in the program.
- ✍ There are 32 keywords in C.



Types of Keywords

auto	break	case	char
const	continue	default	do
double	else	enum	extern
float	for	goto	if
int	long	register	return
short	signed	sizeof	static
struct	switch	typedef	union
unsigned	void	volatile	while



Identifiers

Identifiers are the names given to various program elements such as variables, arrays, and functions.

Basically, Identifiers are the sequences of alphabets and digits.

Rules for forming Identifiers

- ✓ The first character must be an alphabet (uppercase or lowercase), or a digit, or an underscore.
- ✓ All succeeding characters must be letters or digits.
- ✓ No space and special symbols are allowed between the identifiers.
- ✓ No two successive underscores are allowed.
- ✓ Keywords should not be used as identifiers



Example

Identifier name should be like,

Number1,

area,

Calculate,

_square,

First_name etc.,

Should not be like

\$newidentifier

@identi

12number, etc.,



Difference between Keywords and Identifiers

Keyword	Identifier
Keyword is a pre-defined word.	The identifier is a user-defined word
It must be written in a lowercase letter.	It can be written in both lowercase and uppercase letters.
Its meaning is pre-defined in the compiler.	Its meaning is not defined in the compiler.
It is a combination of alphabetical characters.	It is a combination of alphanumeric characters.
It does not contain the underscore character.	It can contain the underscore character.



Delimiters

A delimiter is one or more characters that separate text strings. Common **delimiters** are commas (,), semicolon (;), quotes (" , '), braces ({}), pipes (|), or slashes (/ \). When a program stores sequential or tabular data, it delimits each item of data with a predefined character.



Practice:

Write a C program to find a number odd or even and mention the keywords used in that program using comments.