

SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution



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DEPARTMENT OF INFORMATION TECHNOLOGY

PROGRAMMING FOR PROBLEM SOLVING

I YEAR

UNIT 2 – C PROGRAMMING BASICS

TOPIC 5 – CONSTANT, KEYWORD & DELIMITERS





Constants

Constants are the terms that can't be changed during the execution of a program. For example: 1, 2.5, "Programming is easy." etc. In C, constants can be classified as:

Integer constants

Integer constants are the numeric constants (constant associated with number) without any fractional part or exponential part. There are three types of integer constants in C language: decimal constant (base 10), octal constant (base 8) and hexadecimal constant (base 16).

Decimal digits: 0 1 2 3 4 5 6 7 8 9

Octal digits: 0 1 2 3 4 5 6 7

Hexadecimal digits: 0 1 2 3 4 5 6 7 8 9 A B C D E F.





Floating-point constants

Floating point constants are the numeric constants that has either fractional form or exponent form.

For example:

-2.00.0000234-0.22E-5





Character constants

Character constants are the constant which use single quotation around characters.

For example: 'a', 'l', 'm', 'F' etc.





Escape Sequences

Sometimes, it is necessary to use newline(enter), tab, quotation mark etc. in the program which either cannot be typed or has special meaning in C programming. In such cases, escape sequence are used. For example: \n is used for newline. The backslash(\) causes "escape" from the normal way the characters are interpreted by the compiler.

Escape Sequences

Escane	Sequences	Character

\b Backspace
\f Form feed
\n Newline
\r Return

Horizontal tab
Vertical tab
Backslash

\' Single quotation mark \' Double quotation mark

\? Question mark \0 Null character

String constants

String constants are the constants which are enclosed in a pair of double-quote marks. For example:

KEYWORD



Keywords:

- >Keywords are the system defined identifiers.
- All keywords have fixed meanings that do not change.
- > White spaces are not allowed in keywords.
- >Keyword may not be used as an indentifier.
- ➤ It is strongly recommended that keywords should be in lower case letters.
- There are totally 32(Thirty Two) keywords used in a C programming.



INTRODUCTION TO C PROGRAMMING



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



DELIMITERS



C' Delimiters

Delimiters are the symbols, which has some syntactic meaning and has got significance.

Symbol	Name	Meaning
#	Hash	Pre-processor directive
,	comma	Variable delimiters (to separate list of variables)
:	colon	Label delimiters
;	Semi colon	Statement delimiters
()	parenthesis	Used in expressions or in functions
0	Curly braces	Used in blocking 'C' structure
	Square braces	Used along with arrays





THANK YOU