C Programming

Character set - set of all valid char that can be used in the source file.

Eg:- Digits, Alphabets, special char, white spaces

ASCII Values (American Standard Code for Information Interchange)

Every character that we can use in a program has a special co

Documentation consists of the desc which generally written in the form of comments.

Link- All header files are include in this section which contains diff function form the libraries.

Includes pre-processor directives and code definitions

Global declarations - Include Declarations of global variables.

Functions- Static global variables

The execution starts from the main function, It is mandatory to include a main function in every program.

Sub programs- Includes all user defined functions which can be called in the main.

Keywords are predefined reserved words used in programming which mean something to the compiler. Keywords are part of the syntax and cannot be used as an identifier.

auto -

break

case

Char

Continue

Do

While

Default

Const

Else

Enum

Extern

For

If

Goto

Float

Int

Long

Register

Return

Signed

static

Struct

Ijmi

An arithmetic Instruction consists of a variable name on the left hand side of equal to and variable names and constants using operators and variable names and constants connected using operators on the right hand side of equal to.

Three types of arithmetic instructions:

1. Integer Mode Arithmetic

All operands are either integer vars or integer consts

2. Real Mode Arithmetic

All Operands are either real costs or real vars.

3. Mixed Mode Arithmetic

Some operands are integers and some operands are real

C only allows one variable on the left hand side of =.

Modulus operator cannot be used with float

The sign of the remainder is always the same as the size of a numerator

Arithmetic Operations can be performed on int float and char.

Integer and float conversions

An operation between an int and int results in an int.

An operation between float and float results in a float.

An operation between float and int results in a float.

Type Conversions and Assignments

If type of expressions on right hand side and LHS are not the same the value of the expression on RHS is either promoted or demoted depending on the

When an expression contains two operators of equal priority the tie between them is settled using associativity of operators. All operations either have left to right or right to left associativity.

Consider a currency system in which there are notes of six denominations rs1, 2, 5, 10, 50, 100, if a sum of Rs n is entered....write a program to compute the smallest no of notes that will combine to give.

MATH.h

acos()

asin()

atan()

cos()

Sin()

sqrt()

tan()

pow()

Example: atan2 = tan(y/x)

atan2(y,x)