**C PROGRAMMING:**

* C is a procedural language
* It is a middle level language
* It is statically typed
* Portability
* Modularity
* Rich set of built in functions
* Platform dependent

gcc –Wall –save-temp 1.c –o 1

This command will generate three files:

filename.i, filename.o and filename.s

1. Pre-processing🡪.i
2. Compilation 🡪.s
3. Assembly🡪 .o
4. Linking 🡪output
5. Pre-Processing(filename.i)

* Removal of comment
* Expansion of macros
* Expansion of included files
* Conditional compilation

1. Compilation(filename.s)

* Produces an intermediate compiled output
* The file is in assembly level instructions

1. Assembler(filename.o)

* This file contains machine level instruction

1. Linking(output)

* Linking of function calls with their definition
* It knows where all these functions are implemented

##Rules for naming identifiers or variables:

* They must begin with a letter or underscore(\_)
* They must consist of only letters, digits, or underscore and $. No oter special character is allowed
* It should not be a keyword
* It must not contain white space
* It should be up to 31 characters long

**C VARIABLE:**

* Local variable
* Global variable
* Static variable