

Compiling C program with GCC

Instructions for submission: PPL Assignment 1

Prepared by Mrs. Neelam Deshpande

Problem Statement:

Compile a C Program with `gcc` with various options like `-Wall`, `-save-temps`, `-o`.

Objectives:

1. To be able to write a simple C program with a function.
2. To use the `gcc` compiler and see its options with `man` command.
3. To demonstrate the use of various `gcc` options.

Execution:

Steps to execute and submit the assignment:

1. Write a C Program to add two numbers(taken from the user). Use a separate `sum()` function for the same and pass the values to the function.
2. Compile the C Program with `gcc`.
3. Use the following options: (and take screenshots of outputs)

I. **-o** : To give a specific name to the output file *e.g.* `>gcc file.c -o file >./file`

II. **-Wall**: enable all warning messages *e.g.* `> gcc -Wall file.c`

III. **-save-temps**: To save the intermediate files after compilation.

E.g. `> gcc -- save-temps file.c` will generate `file.i`(preprocessed file), `file.s`(Assembly language code), `file.o`(Hexadecimal Output File) Files.

4. Preview all these files using the `gedit` command and take screenshots of every File for submission. `> gedit file.i file.s file.o`
5. Place your C File along with all the screenshots in a folder for submission.