## Library Module – Shared Library

1. Create 3 files as below.
   * libapplication.c – will contain main() and will invoke functions in cal\_utility.c
   * cal\_utility.c – will contain atleast 2 or more functions [ You may add definitions of the functions in this file ]
   * cal\_utility.h – will contain the extern declarations/prototypes of the functions in cal\_utility.c

libapplication.c

A computer screen with red and white text

Description automatically generated

cal\_utility.c

A black screen with red text

Description automatically generated

cal\_utility.h

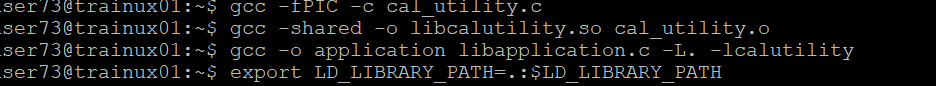
A black background with colorful text

Description automatically generated

1. Refer the steps for shared library and create a shared library comprising of cal\_utility.c,.h files

**Ans: gcc -FPIC -c calutility.c**

**gcc -shared -o libcalutility.so calutility.o**



1. Create an executable using shared library.

**ANS:** **gcc -o apllication libcalutility.c -L. lcalutility**

1. Execute the application created step 3.

**Ans: ./application**

**A screen shot of a computer

Description automatically generated**