Creating a static library

This example creates a static library libAddSub.a, which is a static library that has two functions

- int add(int, int) adds to integers and returns the result
- int sub(int a, int b) -- subtract returns the result of (a b)

We will use these functions in our own program called **testAddandSub.c**

- 1. Create add.c
- 2. Compile

gcc -g -c add.c # this creates a object file add.o

- 3. Create sub.c
- 4. Compile

gcc -g -c sub.c # this creates a object file sub.o

5. Now create an archive (a static library) containing the two object modules

ar rcs libAddSub.a add.o sub.o # this creates are static library

- 6. Create a header file to place our function prototypes in addSub.h
- 7. Now use our static library in our own program testAddandSub.c
 - Create testAddandSub.c
- 8. Now to create your executable compile and link your program testAddandSub.c with our library libAddSub.a

gcc -g testAddandSub.c -o testAddandSub -L./ -IAddSub

Note:

-IAddSub --- that's a lower case L