```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ls
'DBMS lab'   fibonacci.c   head.h   main.c   sumofsquares.c  'Unix Lab'
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ gcc -c fibonacci.c -o fibonacci_obj.o
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ gcc -c sumofsquares.c -o sumofsquares_obj.o
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ gcc -c main.c -o main_obj.o
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ar rcs eg_static.a fibonacci_obj.o sumofsquares_obj.o
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ls
'DBMS lab'   eg_static.a   fibonacci.c   fibonacci_obj.o   head.h   main.c   main_obj.o   sumofsquares.c   sumofsquares_obj.o  'Unix Lab'
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ gcc -o main_result main_obj.o -L. eg_static.a
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ./main_result
Fibonacci number is 5
Sum of squares is 55student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ls
'DBMS lab'     fibonacci.c      head.h   main_obj.o      sumofsquares.c     'Unix Lab'
 eg_static.a   fibonacci_obj.o  main.c   main_result     sumofsquares_obj.o
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ gcc *.o -shared -o eg_dynamic.so
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ls
'DBMS lab'          eg_static.a   fibonacci_obj.o   main.c      main_result        sumofsquares_obj.o
 eg_dynamic.so     fibonacci.c    head.h            main_obj.o  sumofsquares.c    'Unix Lab'
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ gcc -o main_result main_obj.o -L. eg_dynamic.so
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ export LD_LIBRARY_PATH=/home/student/Desktop/422124
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ./main_result
Fibonacci number is 5
Sum of squares is 55student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ export LD_LIBRARY_PATH=/home/student/Desktop/422124
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ./main_result
Fibonacci number is 5
Sum of squares is 55student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ls
'DBMS lab'          eg_static.a   fibonacci_obj.o   main.c       main_result        sumofsquares_obj.o
 eg_dynamic.so     fibonacci.c    head.h            main_obj.o   sumofsquares.c    'Unix Lab'
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$ ldd main_result
        linux-vdso.so.1 (0x00007ffc877d3000)
        eg_dynamic.so => /home/student/Desktop/422124/eg_dynamic.so (0x00007fcd8a77c000)
        libc.so.6 => /lib/x86_64-linux-gnu/libc.so.6 (0x00007fcd8a571000)
        /lib64/ld-linux-x86-64.so.2 (0x00007fcd8a788000)
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422124$
```