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| 1. Create the image with static and dynamic linking. Use the command size and note the result?  // ex1.c  #include <stdio.h>  int main()  {  printf("hello world\n");  return 0;  }  compile using:  gcc -o ex1a ex1.c  gcc -static -o ex1b ex1.c    2. Create static and dynamic libraries. Experiment.  (Create three files, mylib.c(define few functions), mylib.h (function declarations), client\_mylib.c (call functions defined in mylib.c) )  //*static library*  gcc -c mylib.c  ar rcs libmy.a mylib.o  gcc -o output client\_mylib.c -lmy -L.    //*dynamic library*  gcc -fPIC -c mylib.c  gcc -shared -o libmy.so mylib.o  gcc -o output client\_mylib.c libmy.so  export LD\_LIBRARY\_PATH=.:$LD\_LIBRARY\_PATH |
| Experiment with set user ID bit.  Create executable and data file so that others can also access.  (For user1)  a) Open a file (test.dat) for appending.  c) Append to the file  d) Close the file    Requirement:-  a) Remove write permission for others  b) Ask user2 to execute the program  c) Add set user ID bit ( Change permission of program (executable file))  d) Ask user2 to execute the program |

**USP Week 6 Lab Assignments**