

Linux System Programming Assignment 13

Note :

1. Every assignment should be placed in separate folder
2. Every folder of assignment contains
 - One file which contains our program
 - One makefile to compile our application
 - One readme file which contains description
3. Every input should be accepted using command line.

1. Write a program which creates one shared object library which contains two functions named as `search()` and `sort()`. Search function will accept one array and integer and check whether that integer is available in that array or not. Sort function will accept the array and sort the contents of that array using any technique.

Use all the functions of that shared object by writing the client application.

2. Write a program which creates one shared object file which contains one function named as `SumFactors()`. SumFactor function accept one integer and return the summation of all its factors.

Use the function of that shared object by writing the client application.

3. Write a program which creates one shared object file which contains one function named as `CheckPerfect()`. CheckPerfect function internally loads the shared object which was created in the above question and call the function `SumFactors` to check whether the number is perfect or not.

Use the function of that shared object by writing the client application.

4. Write a program which creates two separate shared object files one contains the function named as `MAX()` other file contains the function named as `MIN()`.

`MAX` function accept array of integer and return the maximum element. `MIN` function accept array from user and return the maximum element.

Load both the shared object files from one client application and call both the functions.