16.Write a C program to implement the following unix/linux command on current

directory

ls –l > output.txt

DO NOT simply exec ls -l > output.txt or system command from the program.

#include<fcntl.h>

#include<stdio.h>

#include<stdlib.h>

#include<unistd.h>

#include<sys/wait.h>

char buf[4096];

int main(){

int fd[2],wrfd,count,pid;

pipe(fd);

pid = fork();

if(pid==0)

{

close(1);

dup(fd[1]);

close(fd[0]);

execlp("ls", "ls", "-l", NULL);

printf("Failed to execute");

}

else

{

int status;

close(0);

dup(fd[0]);

close(fd[1]);

if ((wrfd = creat("/root/output.txt",0777 )) < 0)

printf("creat error");

while ((count = read(fd[0], buf, sizeof(buf))) > 0)

write(wrfd, buf, count);

waitpid(pid, &status, 0);

}

return 0;

}