1. Enhance the hello.c program to open a file, read from the file, write to the file, and close the file. Understand how a system call is invoked and how it works by generating and reading an ASM

file. Identify and mark the system calls in your ASM file. Submit your hello.c and ASM files showing the system calls (Use asdfsdafasdfasdfLinux).  
  
/\* Hello World program \*/

#include<stdio.h>

#include<stdlib.h>

main()

{

char \*outputFilename = "output.txt";

char ch;

FILE \*ifp, \*ofp;

printf("Hello World");

ifp = fopen("input.txt", "r");

if (ifp == NULL){

fprintf(stderr, "Can't open input file in.list!\n");

exit(1);

}

ofp = fopen(outputFilename, "w");

if (ofp == NULL) {

fprintf(stderr, "Can't open output file %s!\n",

outputFilename);

exit(1);

}

while (1) {

ch = fgetc(ifp);

if (ch == EOF)

break;

else

putc(ch, ofp);

}

fclose(ifp);

fclose(ofp);

}