**14.Write a C program to Identify the type (Directory, character device, Block**

**device, Regular file, FIFO or pipe, symbolic link or socket) of given file using**

**stat() system call.**

#include <sys/types.h>

#include <sys/stat.h>

#include <stdio.h>

int main(int argc, char \*argv[]) {

struct stat info;

if (argc != 2) {

printf("Provide file name");

}

if (stat(argv[1], &info) == -1) {

printf("stat error");

}

printf("File type: ");

switch (info.st\_mode & S\_IFMT) {

case S\_IFBLK: printf("block device\n"); break;

case S\_IFCHR: printf("character device\n"); break;

case S\_IFDIR: printf("directory\n"); break;

case S\_IFIFO: printf("FIFO/pipe\n"); break;

case S\_IFLNK: printf("symlink\n"); break;

case S\_IFREG: printf("regular file\n"); break;

case S\_IFSOCK: printf("socket\n"); break;

default: printf("unknown?\n"); break;

}

}