**Write a C program to find file properties such as inode number, number of hard link, File permissions, File size, File access and modification time and so on of a given file using stat() system call.**

#include <sys/types.h>

#include <sys/stat.h>

#include <time.h>

#include <stdio.h>

#include <stdlib.h>

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

struct stat info;

if (argc != 2) {

printf("Enter filename\n");

}

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

printf("stat erro");

exit(EXIT\_FAILURE);

}

printf("I-node number: %ld\n", (long) info.st\_ino);

printf("File size: %lld bytes\n",(long long) info.st\_size);

printf("Last file access: %s", ctime(&info.st\_atime));

printf("Last file modification: %s", ctime(&info.st\_mtime));

printf("No of hard links: %d\n",info.st\_nlink);

printf("File Permissions: \t");

printf( (info.st\_mode & S\_IRUSR) ? "r" : "-");

printf( (info.st\_mode & S\_IWUSR) ? "w" : "-");

printf( (info.st\_mode & S\_IXUSR) ? "x" : "-");

printf( (info.st\_mode & S\_IRGRP) ? "r" : "-");

printf( (info.st\_mode & S\_IWGRP) ? "w" : "-");

printf( (info.st\_mode & S\_IXGRP) ? "x" : "-");

printf( (info.st\_mode & S\_IROTH) ? "r" : "-");

printf( (info.st\_mode & S\_IWOTH) ? "w" : "-");

printf( (info.st\_mode & S\_IXOTH) ? "x" : "-");

putchar('\n');

}