**EXPERIMENT – 27**

27. Develop a C program for simulating the function of ls UNIX Command.

#include <stdio.h>

#include <stdlib.h>

#include <dirent.h>

#include <string.h>

void listDirectory(const char \*path, int showAll) {

struct dirent \*dp;

DIR \*dir = opendir(path);

if (dir == NULL) {

perror("Unable to open directory");

return;

}

while ((dp = readdir(dir)) != NULL) {

if (!showAll && dp->d\_name[0] == '.')

continue; // Skip hidden files unless -a is passed

printf("%s ", dp->d\_name);

}

printf("\n");

closedir(dir);

}

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

const char \*path = ".";

int showAll = 0;

if (argc == 2) {

if (strcmp(argv[1], "-a") == 0)

showAll = 1;

else

path = argv[1];

} else if (argc == 3 && strcmp(argv[1], "-a") == 0) {

showAll = 1;

path = argv[2];

}

listDirectory(path, showAll);

return 0;

}

SAMPLE OUTPUT:

file1.txt file2.c notes.doc demo