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

#include <stdio.h>

#include <stdlib.h>

#include <dirent.h>

#include <errno.h>

void list\_directory(const char \*path) {

struct dirent \*entry;

DIR \*dp = opendir(path);

if (dp == NULL) {

perror("opendir");

exit(EXIT\_FAILURE);

}

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

// Skip hidden files if desired (remove the check to include hidden files)

if (entry->d\_name[0] != '.') {

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

}

}

closedir(dp);

}

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

const char \*path;

if (argc == 1) {

path = "."; // Default to the current directory

} else if (argc == 2) {

path = argv[1];

} else {

fprintf(stderr, "Usage: %s [directory]\n", argv[0]);

exit(EXIT\_FAILURE);

}

list\_directory(path);

return 0;

}

Output:

