**Task6**

**Description**

The program lists all the files found in a chosen directory, printing one per line, handles errors if directory is empty or files aren’t found.

**Code**

#include <stdio.h>  
#include <stdlib.h>  
#include <dirent.h>  
  
void list\_directory(const char \*dirname) {  
    DIR \*dir = opendir(dirname);  
    if (!dir) {  
        perror("opendir");  
        return;  
    }  
     
    struct dirent \*entry;  
    printf("Contents of directory: %s\n", dirname);  
    while ((entry = readdir(dir)) != NULL) {  
        printf("%s\n", entry->d\_name);  
    }  
     
    closedir(dir);  
    printf("\n");  
}  
  
int main(int argc, char \*argv[]) {  
    if (argc < 2) {  
        fprintf(stderr, "Usage: %s <directory> [<directory> ...]\n", argv[0]);  
        return EXIT\_FAILURE;  
    }  
     
    for (int i = 1; i < argc; i++) {  
        list\_directory(argv[i]);  
    }  
     
    return EXIT\_SUCCESS;  
}

**Gitlink**

[**https://github.com/FirasAhmed2/Operating-systems-coursework.git**](https://github.com/FirasAhmed2/Operating-systems-coursework.git)