OPERATING SYSTEMS

PROGRAMMING EXERCISE-4

NAME: NAGAVENILG

SRN: PES2UG21CS315

SEC: 4F

Write a C program to list all files whose name matches the filter. Inputs to the program as run time arguments: directory and filename (need to support wildcard)

Example: a.out /home/Ubuntu/abc1.txt

Example: a.out /home/Ubuntu/abc*.txt

Code:

```
OS4.c
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#include <stdio.h>
#include <stdlib.h>
#include <dirent.h>
#include <string.h>
#include <fnmatch.h>
int main(int c, char *q[]) {
 tf (c != 3) {
 fprintf(stderr, "Usage: %s <directory> <filenamepattern>\n", q [0]);
 exit(EXIT_FAILURE);
 char * dir_name = q [1];
 char * file_pattern = q[2];
 DIR *p = opendir(dir_name);
 if (p == NULL) {
fprintf(stderr, "Error: could not open directory '%s'\n", dir_name);
 exit(EXIT FAILURE);
 struct dirent *ptr;
 while ((ptr = readdir(p)) != NULL) {
 if (fnmatch(file_pattern, ptr->d_name, 0) == 0) {
 printf("%s/%s\n", dir_name, ptr->d_name);
 closedir(p);
 return EXIT_SUCCESS;
```

Output:

```
nagavenigowda@ubuntu-1:~/Documents$ gcc 0S4.c
nagavenigowda@ubuntu-1:~/Documents$ ./a.out . OS\*
./OS1.c
./OS2.c
./OS3.c
./OS4.c
nagavenigowda@ubuntu-1:~/Documents$
```

Documents



