

# TASK 9

## Directory Operations in C

Use system calls to list all files and directories in the current working directory.

Change the current working directory to "/tmp".

Create a new directory named "testdir" within "/tmp" and set its permissions to 755.

## CODE –

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <dirent.h>
```

```
#include <unistd.h>
```

```
#include <sys/stat.h>
```

```
int main() {
```

```
    DIR *dir;
```

```
    struct dirent *entry;
```

```
    char cwd[1024];
```

```
    // Get and print current directory
```

```
    if (getcwd(cwd, sizeof(cwd)) != NULL) {
```

```
        printf("Current directory: %s\n", cwd);
```

```
    } else {
```

```
        perror("getcwd error");
```

```
        return 1;
```

```
}
```

```
// Open current directory
```

```
dir = opendir(".");
```

```
if (dir == NULL) {
```

```
    perror("opendir error");
```

```
    return 1;
```

```
}
```

```
// List files and directories
```

```
printf("Listing files:\n");
```

```
while ((entry = readdir(dir)) != NULL) {
```

```
    printf(" - %s\n", entry->d_name);
```

```
}
```

```
closedir(dir);
```

```
// Change directory to /tmp
```

```
if (chdir("/tmp") != 0) {
```

```
    perror("chdir error");
```

```
    return 1;
```

```
}
```

```
printf("Changed to /tmp directory.\n");
```

```
// Create testdir with 755 permissions
```

```
if (mkdir("testdir", 0755) != 0) {  
    perror("mkdir error");  
    return 1;  
}  
  
printf("Created directory /tmp/testdir with 755 permissions.\n");  
  
return 0;  
}
```

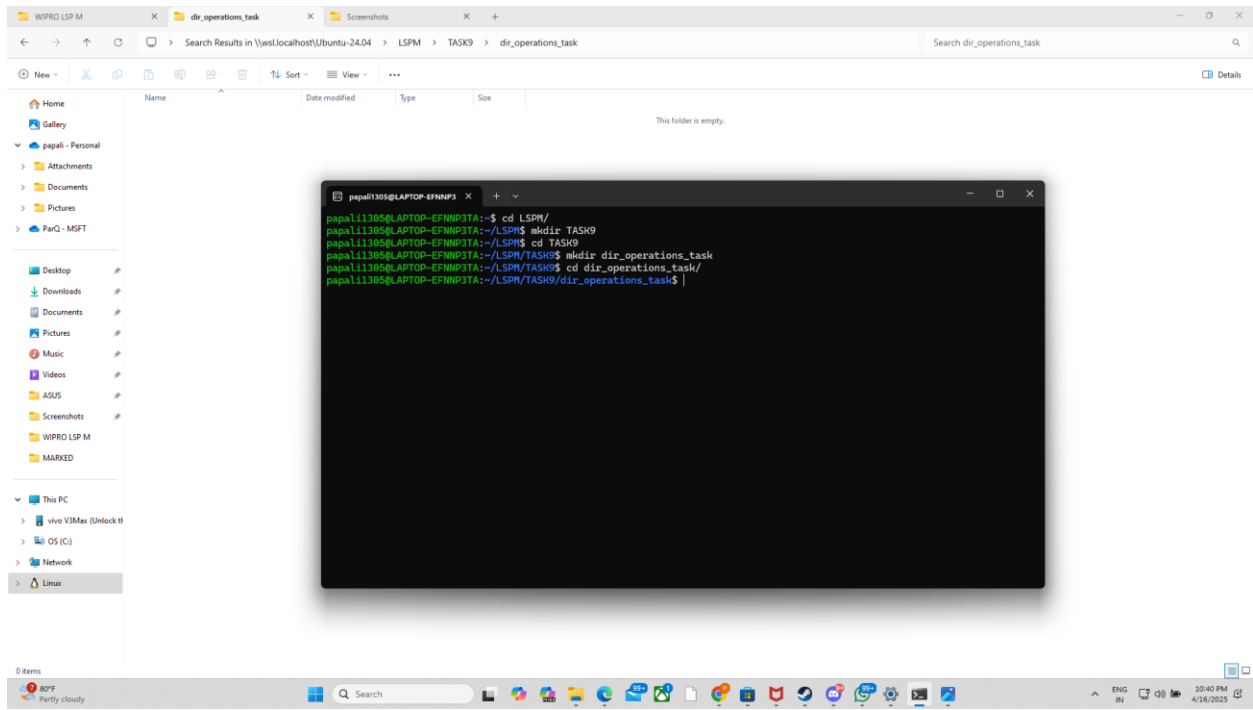
### **FILE-**



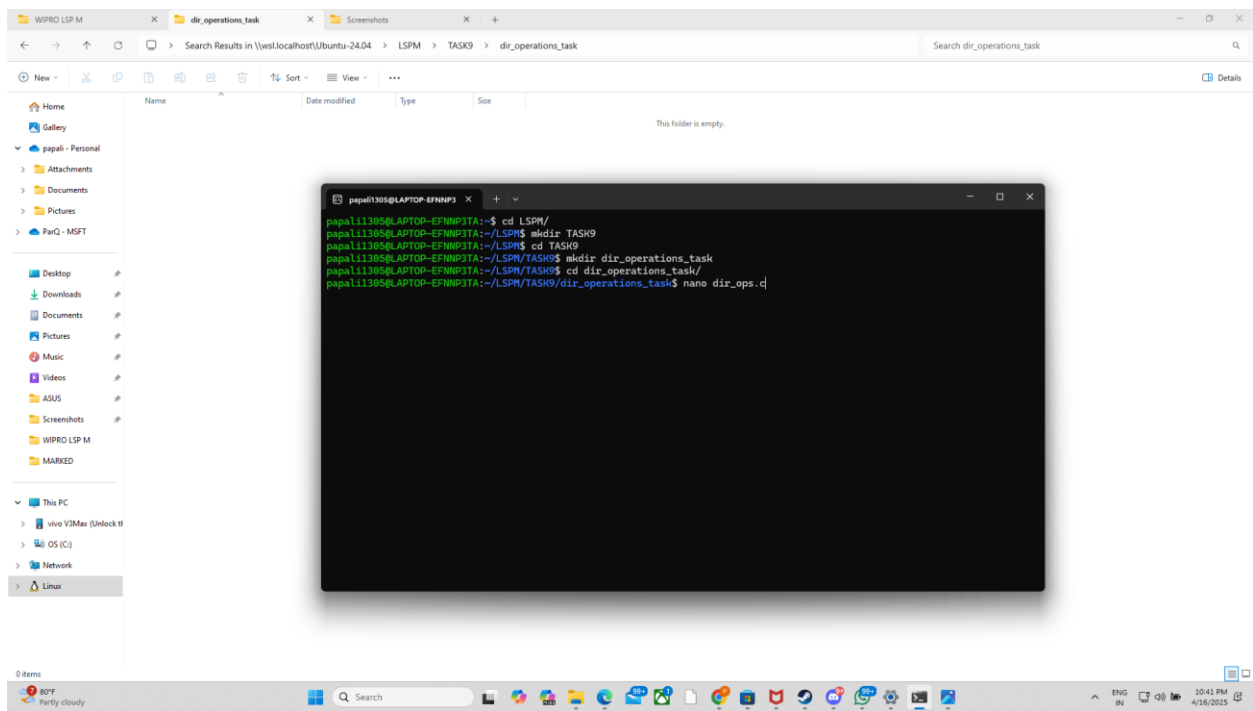
dir\_ops.c

# OUTPUT AND SCREENSHOTS

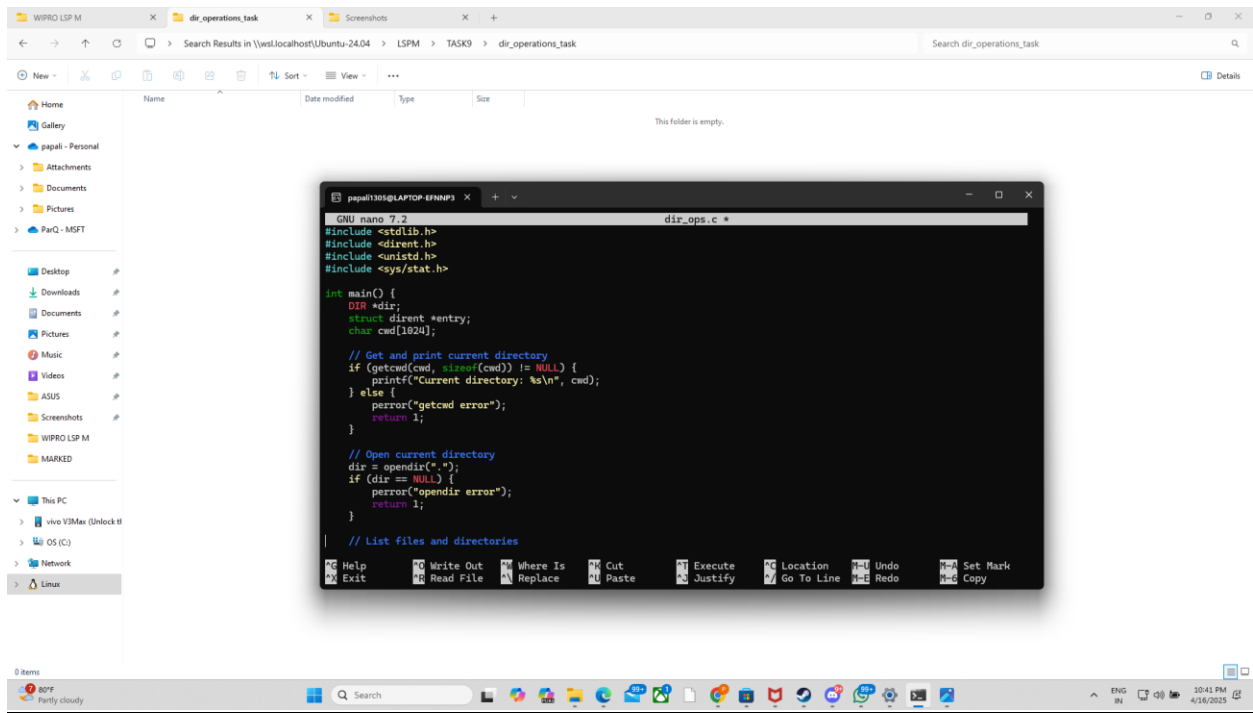
## 01)



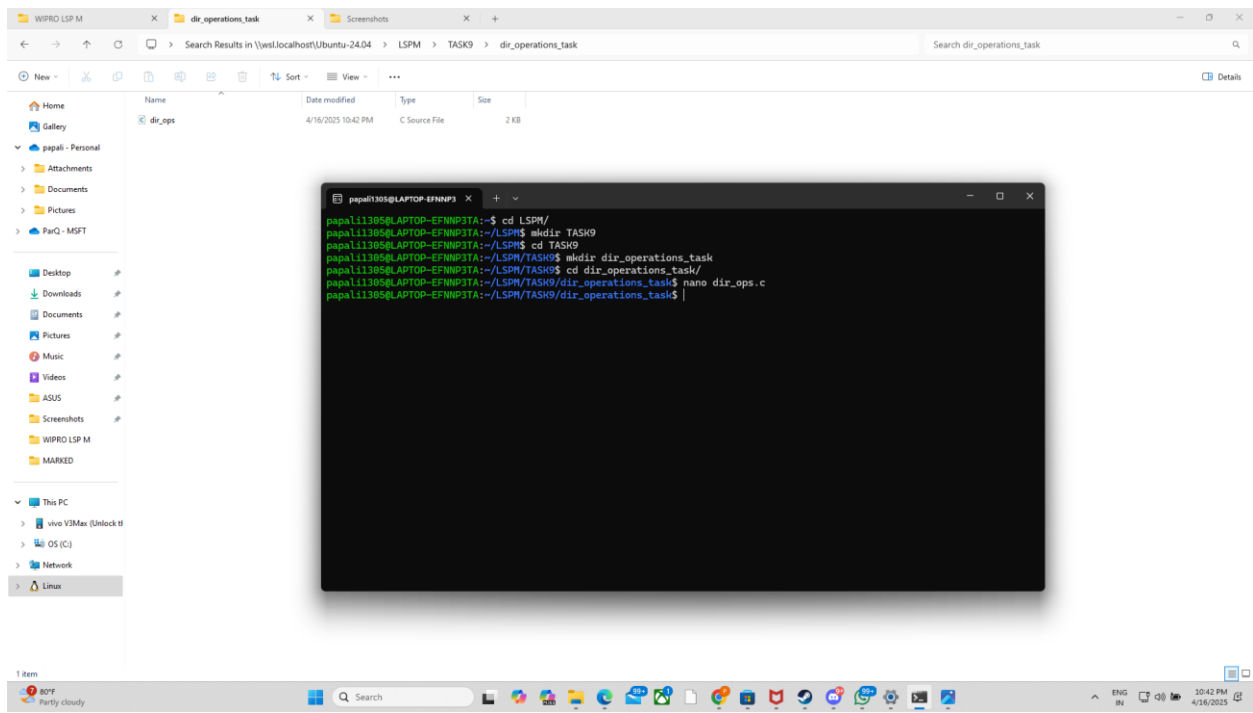
## 02).



## 03).



## 04).



## 05).

