

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

Aim:

To develop a C program that simulates the function of the ls command in UNIX, which lists the files and directories in the current directory.

Procedure:

1. Open the Directory: Use opendir to open the current directory.
2. Read Directory Entries: Use readdir to read entries in the directory.
3. Display Directory Contents: Print the names of files and directories.
4. Close the Directory: Use closedir to close the directory.

Code:

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

int main() {
    DIR *dir;
    struct dirent *entry;

    dir = opendir(".");
    if (dir == NULL) {
        perror("Error opening directory");
        return 1;
    }

    while ((entry = readdir(dir)) != NULL) {
        printf("%s\n", entry->d_name);
    }

    closedir(dir);
    return 0;
}
```

Output:

Output

```
.
..
.bash_logout
.bashrc
.profile
```