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

**Aim:**

To develop a C program that simulates the ls command by listing files and directories in a specified directory.

**Algorithm:**

1. **Start**.
2. Include necessary libraries for file and directory operations (dirent.h).
3. Check for command-line arguments:
   * If no argument is provided, list the contents of the current directory (.).
   * If an argument is provided, list the contents of the specified directory.
4. Use the opendir function to open the directory.
5. Read the directory entries using readdir.
6. Display the names of files and subdirectories.
7. Close the directory using closedir.
8. **End**.

**PROGRAM:**

#include <stdio.h>

#include <stdlib.h>

#include <dirent.h>

#include <errno.h>

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

const char \*dir\_path;

DIR \*dir;

struct dirent \*entry;

if (argc > 1) {

dir\_path = argv[1];

} else {

dir\_path = ".";

}

dir = opendir(dir\_path);

if (dir == NULL) {

perror("Unable to open directory");

return 1;

}

printf("Contents of directory: %s\n", dir\_path);

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

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

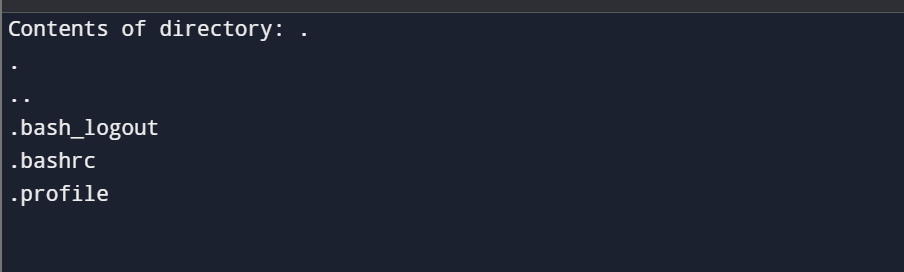
}

closedir(dir);

return 0;

}

**OUTPUT:**

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