**EX 28: Write a C program for simulation of GREP UNIX command.**

**Aim:**

To develop a C program that simulates the grep command by searching for a given pattern in a specified file and displaying matching lines.

**Algorithm:**

1. **Start.**
2. Take the pattern to search for and the file name as command-line arguments.
3. Open the specified file using fopen.
4. Read the file line by line using fgets.
5. Check each line for the presence of the pattern using strstr.
6. If the pattern is found in a line, print the line.
7. Close the file using fclose.
8. **End.**

**PROGRAM:**

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

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

if (argc != 3) {

fprintf(stderr, "Usage: %s <pattern> <file>\n", argv[0]);

return 1;

}

const char \*pattern = argv[1];

const char \*file\_name = argv[2];

FILE \*file;

char line[1024];

int line\_number = 0;

file = fopen(file\_name, "r");

if (file == NULL) {

perror("Error opening file");

return 1;

}

while (fgets(line, sizeof(line), file) != NULL) {

line\_number++;

if (strstr(line, pattern) != NULL) {

printf("Line %d: %s", line\_number, line);

}

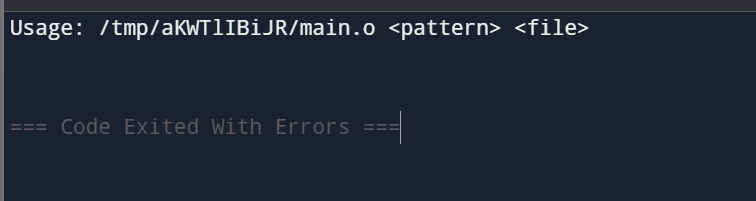
}

fclose(file);

return 0;

}

**OUTPUT:**

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