**Experiment-28;Write a C program for simulation of GREP UNIX command**

Aim:

To simulate the functionality of the grep command in UNIX, which searches for a specified pattern in a file and displays the lines containing that pattern.

Procedure:

1. Open the File: Use fopen to open the specified file for reading.
2. Read the File Line by Line: Use fgets to read the file line by line.
3. Search for the Pattern: Use strstr to search for the specified pattern in each line.
4. Display Matching Lines: Print the lines that contain the pattern.
5. Close the File: Use fclose to close the file after reading.

C Code:

#include <stdio.h>

#include <string.h>

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

FILE \*file;

char line[256];

if (argc != 3) {

printf("Usage: ./grep <pattern> <file>\n");

return 1;

}

file = fopen(argv[2], "r");

if (file == NULL) {

perror("Error opening file");

return 1;

}

while (fgets(line, sizeof(line), file)) {

if (strstr(line, argv[1]) != NULL) {

printf("%s", line);

}

}

fclose(file);

return 0;

}

Output:

