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

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define MAX\_LINE\_LENGTH 1024

void grep(const char \*pattern, const char \*filename) {

FILE \*file = fopen(filename, "r");

if (file == NULL) {

perror("fopen");

exit(EXIT\_FAILURE);

}

char line[MAX\_LINE\_LENGTH];

int line\_number = 0;

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

line\_number++;

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

printf("%s", line); // Prints the matching line

}

}

fclose(file);

}

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

if (argc != 3) {

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

exit(EXIT\_FAILURE);

}

const char \*pattern = argv[1];

const char \*filename = argv[2];

grep(pattern, filename);

return 0;

}

Output:

