

## **EXP 28: Write a C program for simulation of GREP UNIX command**

```
#include <stdio.h>

#include <stdlib.h>

#include <string.h>


#define MAX_LINE 1024


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

    if (argc != 3) {

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

        return 1;

    }


    const char *pattern = argv[1];

    const char *filename = argv[2];

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


    if (file == NULL) {

        perror("Error opening file");

        return 1;

    }


    char line[MAX_LINE];

    int line_num = 0;

    int found = 0;


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

        line_num++;
```

```

    if (strstr(line, pattern) != NULL) {
        printf("%d: %s", line_num, line);
        found = 1;
    }
}

if (!found) {
    printf("Pattern '%s' not found in file '%s'.\n", pattern, filename);
}

fclose(file);
return 0;
}

```

## Sample Output

```

Usage: C:\Users\chait\OneDrive\Dokumen\Untitled1333.exe <pattern> <filename>
-----
Process exited after 2.625 seconds with return value 1
Press any key to continue . . . |

```