

## OS LAB 10

### CODE:

```
#include<stdio.h>
#include<unistd.h>
#include<stdlib.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <unistd.h>
#include<string.h>
#include <fcntl.h>

int main(int argc,char *argv[])
{
    int file_descriptor,r,i=0;
    char temp,line[100];
    int line_no=1;
    if((file_descriptor=open(argv[2],O_RDONLY)) != -1)
    {
        while((r=read(file_descriptor,&temp,sizeof(char)))!= 0)
        {
            if(temp!='\n')
            {
                line[i]=temp;
                i++;
            }
            else
            {
                if(strstr(line,argv[1])!=NULL)
                    printf("%s\t Line Number=%d\n",line,line_no);
                memset(line,0,sizeof(line));
                i=0;
                line_no++;
            }
        }
    }
}
```

Output:

```
guest-r7tvab@usama-HP-Pavilion-15-Notebook-PC: ~  
guest-r7tvab@usama-HP-Pavilion-15-Notebook-PC:~$ gcc -o perk usama_ishfaq.c  
guest-r7tvab@usama-HP-Pavilion-15-Notebook-PC:~$ ./perk Call usama_ishfaq.txt  
Hi this is Usama Ishfaq. I am 3rd year Software Engineering Student in SEecs. My  
extrac curricular activites include volunteer work in societies such as NUST DE  
BATING SOCIETY. My favourite game is Call of Duty 4.8Y♦♦Q♦♦ Line Number=1  
*** stack smashing detected ***: ./perk terminated  
Aborted (core dumped)  
guest-r7tvab@usama-HP-Pavilion-15-Notebook-PC:~$
```

By

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SE-5A