Lab 3 – OS

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## Code:

**#include<stdio.h>**

**#include<unistd.h>**

**#include <string.h>**

**#include<stdlib.h>**

**#include<fcntl.h>**

**#include<errno.h>**

**#include<sys/types.h>**

**#define BUFFERSIZE 8192**

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

**int in, out; // Input and output file descriptors**

**ssize\_t ret\_in, ret\_out; // no of bytes returned read and write method**

**char buff[BUFFERSIZE]; /\* Character buffer \*//\* Are src and dest file name arguments missing \*/**

**if(argc!= 3){**

**printf ("Usage: cp file1 file2");**

**return 1;**

**}// creating input file descriptor**

**in = open (argv[2], O\_RDONLY);**

**if(in == -1) {**

**perror ("open");**

**return 2;**

**}// creating output file descriptor**

**char token[50];**

**strcpy(token,argv[1]);**

**//copying the file**

**int i=0, j=0,k=0;**

**char buffArr[100];**

**read (in, &buffer, BUFFERSIZE);**

**char line[8192];**

**int count = 0;**

**while(j<200){**

**line[i++]=(char)buff[j];**

**//printf("%c\n",buff[j]);**

**if(buff[j++]==10){**

**if (strstr(line, token) != NULL){**

**printf("%s",line);**

**count++;**

**}**

**i=0;**

**continue;**

**}**

**}**

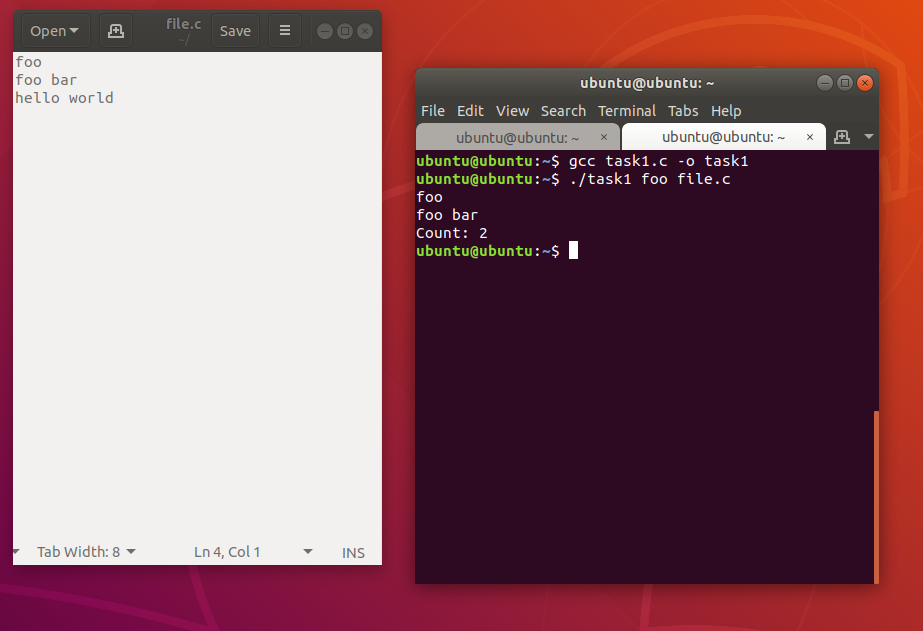
**printf("Count: %d\n", count);**

**// closes file**

**close (in);**

**return(EXIT\_SUCCESS);}**

# Output:

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