



Batch: P5-2 Roll No.:16010422185

Experiment / assignment / tutorial No. Grade: AA / AB / BB / BC / CC / CD /DD

Signature of the Staff In-charge with date

**TITLE:** File handling in C

**AIM:** Write a C program to copy the contents of one text file to another

**Expected OUTCOME of Experiment:** 

#### **Books/ Journals/ Websites referred:**

- 1. Programming in C, second edition, Pradeep Dey and Manas Ghosh, Oxford University Press.
- 2. Programming in ANSI C, fifth edition, E Balagurusamy, Tata McGraw Hill.
- 3. Introduction to programming and problem solving, G. Michael Schneider ,Wiley India edition.

#### Theory:

#### **Problem Definition:**

#### Write a C program to

- 1. Accept 5 students name and roll number from user
- 2. Create a new file having name "info.txt"
- 3. Copy students information collected in step 1 in file created in step 2 "info.txt"
- 4. Create one more new file having name "backup.txt"
- 5. Copy contain of file "info.txt" into "backup.txt"

#### Implementation details:

```
#include<stdio.h>
#include<string.h>
#include <stdlib.h>

int main() {
    int i,n=5;
    int roll_no[n];
    char name[n][20];

for (i=0;i<n;i++)
    {
      fflush(stdin);
      printf("\nEnter name of student:");
}</pre>
```





```
gets(name[i]);
  printf("\nEnter roll number:");
  scanf("%d",&roll_no[i]);
FILE *fs,*ft;
char snum[10];
fs=fopen("info.txt","w");
for(i=0;i< n;i++)
{
  itoa(roll_no[i], snum, 10);
  fputs(strcat(strcat(name[i],","),strcat(snum,"\n")),fs);
fclose(fs);
fs=fopen("info.txt","r");
ft=fopen("backup.txt","w");
char ch;
while(1){
  ch=fgetc(fs);
  if(ch==EOF)
     break;
  fputc(ch,ft);
fclose(fs);
fclose(ft);
return 0;
```

### **Output:**

}





Enter name of student:Pratham

Enter roll number:44

Enter name of student:Rikhav

Enter roll number:39

Enter name of student:Diya

Enter roll number:22

Enter name of student:Keshav

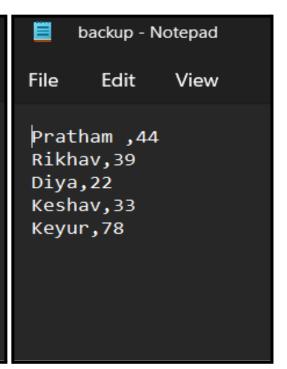
Enter roll number:33

Enter name of student:Keyur

Enter roll number:78

File Edit View

Pratham ,44
Rikhav,39
Diya,22
Keshav,33
Keyur,78







<sup>r</sup> Today			
backup	15-01-2023 12:01	Text Document	1 KB
info	15-01-2023 12:01	Text Document	1 KB
<b>□</b> exp 8	15-01-2023 12:00	Application	43 KB
exp 8.o	15-01-2023 12:00	O File	3 KB
exp 8.c	15-01-2023 11:57	C File	1 KB
/ Vesterday			

### **Conclusion:**

Concept of File handling was understood and implemented.

### **Post Lab Descriptive Questions**

1. Write a program to append the contents of one file at the end of another.

### **Code:**

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    int BUFFER_SIZE = 1000;
    FILE *fPtr;
    char filePath[100];
    char dataToAppend[BUFFER_SIZE];
    printf("Enter file path: ");
    scanf("%s", filePath);
    fPtr = fopen(filePath, "a");
    if (fPtr == NULL)
    {
}
```





```
printf("\nUnable to open '%s' file.\n", filePath);
     printf("Please check whether file exists and you have write privilege.\n");
     exit(EXIT FAILURE);
}
printf("\nEnter data to append: ");
fflush(stdin);
fgets(dataToAppend, BUFFER SIZE, stdin);
fputs(dataToAppend, fPtr);
fPtr = freopen(filePath, "r", fPtr);
printf("\nSuccessfully appended data to file. \n");
printf("Changed file contents:\n\n");
char ch;
do
{
     ch = fgetc(fPtr);
     putchar(ch);
} while( ch != EOF);
fclose(fPtr);
return 0;
```

#### **Output:**





Enter file path: C:\Users\Pratham\Dropbox\PC\Downloads\code\backup.txt
Enter data to append: new data
Successfully appended data to file. Changed file contents:
Pratham ,44 Rikhav,39 Diya,22 Keshav,33 Keyur,78 new data

Date: \_\_\_\_\_ Signature of faculty in-charge