



Batch: C2-2 Roll No.: 16010122109 Experiment / assignment / tutorial No. 8 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>
int main()
{
    // Step 1: Accept 5 students name and roll number from user char students[5][100];
    int rollNumbers[5];
    int i;
    for (i = 0; i < 5; i++)
    {
        printf("Enter name of student %d: ", i + 1);
        scanf("%s", students[i]);
        printf("Enter roll number of student %d: ", i + 1);
        scanf("%d", &rollNumbers[i]);
}</pre>
```



}

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```
}
// Step 2: Create a new file having name "info.txt"
FILE *file = fopen("info.txt", "w");
if (file == NULL)
{
  printf("Error creating file\n");
  return 1;
}
// Step 3: Copy students information collected in step 1 in file created in step 2 "info.txt"
for (i = 0; i < 5; i++)
   fprintf(file, "Name: %s\tRoll Number: %d\n", students[i], rollNumbers[i]);
}
fclose(file);
// Step 4: Create one more new file having name "backup.txt"
FILE *backup = fopen("backup.txt", "w");
if (backup == NULL)
  printf("Error creating backup file\n");
  return 1;
}
// Step 5: Copy contain of file "info.txt" into "backup.txt"
file = fopen("info.txt", "r");
int c;
while ((c = fgetc(file)) != EOF)
   fputc(c, backup);
}
fclose(file);
fclose(backup);
return 0;
```





```
Enter name of student 1: aakriti
Enter roll number of student 1: 109
Enter name of student 2: arya
Enter roll number of student 2: 120
Enter name of student 3: alethea
Enter roll number of student 3: 115
Enter name of student 4: dhatri
Enter roll number of student 4: 110
Enter name of student 5: hiya
Enter roll number of student 5: 122

Process returned 0 (0x0) execution time : 32.453 s
Press any key to continue.
```

Conclusion:

Thus, we learned to copy the contents of one text file to another (i.e. file handling).

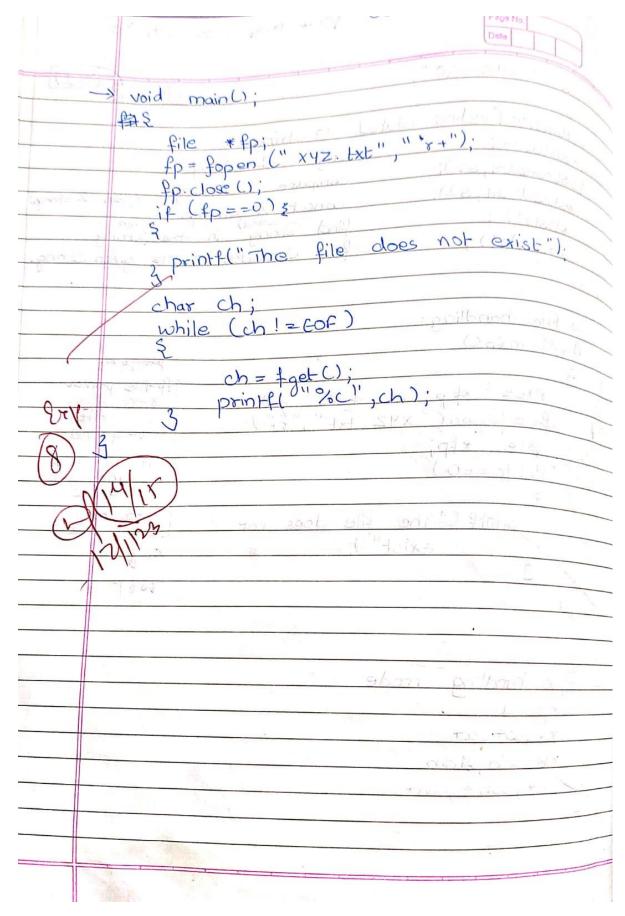




n= Stolen (s); length of string.	rgs (join 2 strings) the given the string
File handling: O void main C) Print p; name of file mode fp = fopen ("xyz.txt", "r+"); file *fp; of (fp == 0) print p (" The file does not exist");	fp-fite pointer y-read w-write a-append tt-can read and open the file b-binasy aff
- Pile handling mode T, W, a Y+, wot, a+ Yb, wb, stab Yb+, wb+, ab+	FIC SCIII V 2022-2023









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Post Lab Descriptive Questions

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

#include <stdio.h> int main(int argc, char *argv[]) if (argc != 3) printf("Usage: %s <file1> <file2>\n", argv[0]); return 1; FILE *file1 = fopen(argv[1], "a"); FILE *file2 = fopen(argv[2], "r"); if (file1 == NULL || file2 == NULL) printf("Error opening file\n"); return 1; } while ((c = fgetc(file2)) != EOF)fputc(c, file1); fclose(file1); fclose(file2); return 0;

Date: _____ Signature of faculty in-charge