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**Title:** Lab - 1

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**sample program:**

#include<stdio.h>

#include<stdlib.h>

int main() {

FILE \*fptr1, \*fptr2;

char filename[100], c;

printf("Enter the filename to open for reading: \n");

scanf("%s", filename);

fptr1 = fopen(filename, "r");

if(fptr1==NULL)

{

printf("Cannot open file %s \n", filename);

exit(0);

}

printf("Enter the filename to open for writing: \n");

scanf("%s", filename);

fptr2 = fopen(filename, "w+");

c = fgetc(fptr1);

while (c != EOF)

{

fputc(c, fptr2);

c = fgetc(fptr1);

}

printf("\nContents copied to %s", filename);

fclose(fptr1);

fclose(fptr2);

return 0;

}

**file.txt:**

Hello world

**Output:**

Contents copied to file1.txt

**file1.txt:**

Hello world

**Q1)**

**Code:**

#include <stdio.h>

#include <stdlib.h> // For exit()

int main()

{

FILE \*fptr1, \*fptr2;

char filename[100], c;

printf("Enter the filename to open for reading: \n");

scanf("%s", filename);

fptr1 = fopen(filename, "r");

// Open one file for reading

if (fptr1 == NULL)

{

printf("Cannot open file %s \n", filename);

exit(0);

}

// printf("Enter the filename to open for writing: \n");

// scanf("%s", filename);

// fptr2 = fopen(filename, "w+"); // Open another file for writing

c = fgetc(fptr1);

// Read contents from file

int count=1;

int line = 1;

while (c != EOF)

{

// fputc(c, fptr2);

c = fgetc(fptr1);

count++;

if(c == '\n'||c == ' '){

count--;

}

if(c == '\n'){

line++;

}

}

printf("NUmber of characters in the file %s are: %d\n",filename,count);

printf("NUmber of lines in the file %s are: %d\n",filename,line);

fclose(fptr1);

return 0;

}

**Screenshots:**

**A screenshot of a computer

Description automatically generated**

**Q2)**

**Code:**

#include<stdio.h>

#include<stdlib.h>

int main() {

FILE \*fptr1, \*fptr2;

int no=0;

char filename[100], c;

printf("Enter the filename to open for reading: \n");

scanf("%s", filename);

fptr1 = fopen(filename, "r");

if(fptr1==NULL)

{

printf("Cannot open file %s \n", filename);

exit(0);

}

printf("Enter the filename to open for writing: \n");

scanf("%s", filename);

fptr2 = fopen(filename, "w+");

fseek(fptr1, 0, SEEK\_END);

long file\_size = ftell(fptr1);

for(long i=1; i<=file\_size; i++) {

fseek(fptr1, -i, SEEK\_END);

c = fgetc(fptr1);

if (c != EOF)

{

printf("%c", c);

fputc(c, fptr2);

}

}

printf("\nContents copied to %s\n", filename);

printf("The size of the side %ld\n", file\_size);

fclose(fptr1);

return 0;

}

**Screenshot:**

A screenshot of a computer

Description automatically generated

**Q3)**

**Code:**

#include <stdio.h>

#include <stdlib.h> // For exit()

int main() {

FILE \*fptr1, \*fptr2, \*fptr3;

char filename1[100], filename2[100], filename3[100];

char line1[1000], line2[1000];

printf("Enter the filename1 to open for reading: \n");

scanf("%s", filename1);

fptr1 = fopen(filename1, "r");

if (fptr1 == NULL) {

printf("Cannot open file %s \n", filename1);

exit(0);

}

printf("Enter the filename2 to open for reading: \n");

scanf("%s", filename2);

fptr2 = fopen(filename2, "r");

if (fptr2 == NULL) {

printf("Cannot open file %s \n", filename2);

fclose(fptr1);

exit(0);

}

printf("Enter the filename to open for writing: \n");

scanf("%s", filename3);

fptr3 = fopen(filename3, "w");

if (fptr3 == NULL) {

printf("Cannot open file %s for writing\n", filename3);

fclose(fptr1);

fclose(fptr2);

exit(0);

}

while ((fgets(line1, sizeof(line1), fptr1) != NULL) || (fgets(line2, sizeof(line2), fptr2) != NULL)) {

if (line1[0] != '\0') {

fputs(line1, fptr3);

}

if (line2[0] != '\0') {

fputs(line2, fptr3);

}

}

printf("\nContents copied to %s\n", filename3);

fclose(fptr1);

fclose(fptr2);

fclose(fptr3);

return 0;

}

**A screenshot of a computer

Description automatically generated**