File to create, write, read and append in c

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• So far, to write programs are done on command prompt or terminal (i.e. ubuntu os of cmd) which is not stored anywhere and most of the time we want to rewrite those programs. • But now a day we are using GUI level so we can easily store data in files, write also can be open

and read. • If needs to store and fetched data in the file on your system, different operations are required to

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store by using 'C' language. *Creation of a new file (fopen) *Opening an existing file (fopen).

*Reading from file (fscanf or fgets). *Writing to a file (fprintf or fputs). *Moving to a specific location in a file (fseek, rewind). *Closing a file (fclose). • C provides the number of functions that help to perform basic file operations. • File functions are, Description Function

Used to create a new file or open a existing file. fopen() Used to close the file. fclose() Used to read set of data from file. fscanf() Used to write set of data to file. fprintf() Used to read a character from file. getc() Used to write a character to file. putc() getw() Used to read integer data from file. Used to write integer data to file. putw() Used to set the position to desire point fseek() fwind() Used to set the position to the beginning point ftell() Used to show current location of given file. Indicate end-of-the file and return value as 0. feof() • Also, need modes for writing or read a file: Mode Description

opens or create a text file in writing mode. W a

opens a text file in reading mode

opens a text file in append mode opens a text file in both reading and writing mode r+opens a text file in both reading and writing mode w+opens a text file in both reading and writing mode a+opens a binary file in reading mode rb opens or create a binary file in writing mode wb opens a binary file in append mode ab opens a binary file in both reading and writing mode rb+ wb+ opens a binary file in both reading and writing mode opens a binary file in both reading and writing mode ab+ **How to Create a File:** • fopen is the standard function that is used to open a file. • If the file is not present on the system, then it is created and then opened. • If a file is already present on the system, then it is directly opened using this function.

FILE *fp;

Syntax:

Example:

#include <stdio.h>

fp = fopen ("file_name", "mode"); where, fp is a pointer variable.

#include<conio.h> int main() { FILE *fp; clrscr(); fp = fopen ("welcome.txt", "w");//create new file printf("\n File welcome.txt has been created"); getch(); return 0;

Turbo C++

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How to writing to a File:

Syntax:

Output:

C Computer ► Local Disk (C:) ► TURBOC3 ► BIN ► New folder Name TCDEF.DPR 03-09-2020 8:34 PM DPR File TCDEF.DSK 03-09-2020 8:34 PM DSK File WELCOME.TXT 03-09-2020 8:34 PM Text Document

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

File welcome.txt has been created

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fputc(array_variable, pointer_variable);//if using loop fputs("text or string", pointer_variable);//without loop Example program for create the file and write data into the file:

pointer_variable =fopen("file_name.txt","w");

• The write mode is used to write a given content into the file.

• fputc(char, file_pointer): It writes a character to the file pointed to by file pointer.

string can optionally include format specifiers and a list of variables variable lists.

• fputs(str, file_pointer): It writes a string to the file pointed to by file pointer.

#include <stdio.h> #include<conio.h> int main() {

• fprintf(file_pointer, str, variable_lists): It prints a string to the file pointed to by file pointer. The

int i; FILE * fptr;//declare pointer variable to file char fn[50]; char $str[] = "C file hadling \n";$ fptr = fopen("file1.txt", "w"); // "w" defines "writing mode" for $(i = 0; str[i] != '\n'; i++) {$ //write to file using fputc() function fputc(str[i], fptr); fclose(fptr);//close the file

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FILE1.TXT

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C file hadling

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Example program for w+ mode:

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Output:

the file.

while(variable_name != EOF)

Example program for read file mode:

fr = fopen("f2.c", "r");

FILE *fr;

char c;

clrscr();

Syntax:

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return 0;

Output:

#include <stdio.h> int main() { FILE * fp; fp = fopen("FILE1.txt", "w+"); fputs("w+ is used to read and write operations.", fp); fputs("We don't need to use for loop\n", fp); fputs("Easier than fputc function\n", fp); fclose(fp); return (0);

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pointer_variable =fopen("file_name.extention","r");

variable_name = fgetc(pointer_variable);

#include <stdio.h> #include<conio.h> int main()

• Reading file is nothing but, it is used to show on the output screen to know what content inside

while(c != EOF) c = fgetc(fr); // read from file printf("%c",c); //display on screen getch(); fclose(fr); return 0; **Output:** Turbo C++ DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC #include <stdio.h> int main() { FILE * fp;

fputs("w+ is used to read and write operations.", fp);

fputs("We don't need to use for loop\n", fp);

fputs("Easier than fputc function\n", fp);

fp = fopen("FILE1.txt", "w+");

Example program for write and read program:

fclose(fp); return (0);

fp = fopen("output.txt", "w"); printf("\n Enter a string and a number:\n"); scanf("%s %d", s, &n); //read from keyboard fprintf(fp, "%s %d", s, n); // write to file

#include<stdio.h>

#include<conio.h>

FILE *fp;

char s[30];

int n;

clrscr();

fclose(fp);

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How to append text into an existing file:

• Write mode is used to write new content into the file.

pointer_variable = fopen(file_name_stored_variable, 'a');

fclose(fp);//after write the content then close the file

while ((ch = fgetc(fp))! = EOF)

fclose(fp);//closed after read

printf ("%c", ch);

fprintf(fp, "%s\n", content_store_variable);// Write content to file

already existing content.

Desktop

Syntax:

Example:

fp = fopen("output.txt", "r");

printf("\n Read data from output.txt file..... \n");

int main()

fscanf(fr, "%s\n%d", s, &n); //read from file printf("%s %d", s, n); //display on screen getch(); fclose(fp); return 0; **Output:** Turbo C++ DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC Enter a string and a number: whereisstuff.com 2020 Read data from output.txt file..... whereisstuff.com 2020_ Cal Disk (C:) ➤ TURBOC3 ➤ BIN ➤ Open ▼ Print Burn New folder Date modified Name * Favorites Desktop F4.C 03-09-2020 7:39 PM C File

OUTPUT.TXT

OUTPUT.TXT - Notepad

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• An append mode is nothing but, it similar to the write mode but it is used to concatenate the text

#include <stdio.h> #include<conio.h> int main() FILE *fp; char ch; char *filename = "file1.txt"; char *content = "This text is appended in file1 using C programming."; clrscr(); fp = fopen(filename, "r");//first open and read file for display purpose

fclose(fp);//after write the content then close the file fp = fopen(filename, "r");//again file open for read to check append or not printf("\n After append the text into the file %s \n", filename); while ((ch = fgetc(fp))! = EOF)printf ("%c", ch); fclose(fp);//closed file getch(); return 0; **Output:** Turbo C++

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

Before append text into the file : file1.txt w+ is used to read and write operations. We don't need to use for loop.

After append the text into the file file1.txt

This text is appeneded in file1 using C programming.

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is used to read and write operations.

Easier than fputc function.

We don't need to use for loop.

Easier than fputc function.

Before running the program:

fp = fopen(filename, "a");//again open for append

fprintf(fp, "%s\n", content);// Write content to file

printf("\n Before append text into the file : %s \n", filename);

Open ▼ Print Burn New folder Type Date modified Size * Favorites Desktop FILE1.TXT 04-09-2020 6:39 PM Text Document 1 KB Recent Places _ O X FILE1.TXT - Notepad OneDrive File Edit Format View Help Downloads w+ is used to read and write operations. We don't need to use for loop. Desktop Easier than fputc function. Libraries This text is appeneded in file1 using C programming. Homegroup DTJ002 After running the program: Open ▼ Print New folder Date modified Type Size Name * Favorites Desktop FILE1.TXT 04-09-2020 6:45 PM Text Document Recent Places - - X FILE1.TXT - Notepad OneDrive

w+ is used to read and write operations.

We don't need to use for loop.

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