

# PROGRAMMING



## FOR PROBLEM SOLVING

### { C LANGUAGE }



# Module :- 10

**File handling**

**Start**



# Module 10 :- File Handling

- Operation on file
- Mode of operation
- Examples..



# File handling in C language

- In this type of programming we can perform different type of operation on file and operation results is stored in the file permanently

## ✓ **Mainly two types of file on which we perform operation**

1. Text file
2. Binary file



## Text file

- This type of file can be created using notepad or other simple editors
- The extension of text file is (.txt)
- This file contains simple text

## Binary file

- The extension of binary file is (.bin)
- This file contains information in the form of binary code ( 1 or 0) and it is not readable



# Operation on file

1. Opening of file
2. Closing of file
3. Reading from file
4. Writing into file
5. Appending data into file

# Mode of operation



<u>File Mode</u>	<u>Description</u>
<b>r</b>	<b>It opens an existing text file for reading purpose. If the file does not exist, fopen() returns NULL.</b>
<b>r+</b>	<b>It opens an existing text file for reading and writing Purpose . If the file does not exist, fopen() returns NULL.</b>
<b>w</b>	<b>It opens a text file for writing purpose. If it does not exist, then a new file is created. If the file exists, its contents are overwritten.</b>

<b>W+</b>	<b>It opens a text file for writing and reading purpose. If it does not exist, then a new file is created. If the file exists, its contents are overwritten.</b>
<b>a</b>	<b>It is used to open a text file in writing appending mode.If the file does not exist, then a new file is created.</b>
<b>a+</b>	<b>It is used to open a text file in writing and reading appending mode.If the file does not exist, then a new file is created.</b>

# Some important function



Function Name	Description
<b>fopen()</b>	<b>1.It is used to open a text file on given path. 2.It has two parameter path(where file is created) and mode of operation (Ex- r for reading or w for writing).</b>
<b>fscanf()</b>	<b>1.It is used to scan the text file. 2.It acts like an scanner ,it reads a set of data from file.</b>
<b>fprintf()</b>	<b>1.printf is used to printf information or data on output screen. 2.fprintf is used to print information or data into the file. 3.It has also two parameter file and message which is to be printed.</b>
<b>fclose()</b>	<b>It is a predefined function which is used to close the file.</b>
<b>getc()</b>	<b>It is used to get a character from file.</b>
<b>putc()</b>	<b>It is used to write a character to a file</b>

# Writing into the file

- **Note** → before the execution of this progeme go to c drive and create a tem folder if it does not exist

```
#include<stdio.h>
int main()
{
FILE *fp;
fp=fopen("/temp/demo.txt","w");
fprintf(fp,"Hello friends, how are you???.");
fclose(fp);
}
```

### Output ###

After compiling and executing this program go to c drive , open temp folder you will see a text file(demo.txt) now open it ,the content of this file is  
Hello friends, how are you???.

# Reading from a file



```
#include<stdio.h>
int main()
{
FILE *fp;
char msg[200];
fp=fopen("/temp/demo.txt","r");//opening the file in reading
mode
fgets(msg,200,fp);
printf("%s",msg);
fclose(fp);//closing the file
}
```

### Output ###

Hello friends, how are you???



**Thank You !!**

**Dhanybad !!**

**Shukriya !!**