C library function - fwrite()

Description

The C library function **size_t fwrite(const void *ptr, size_t size, size_t nmemb, FILE *stream)** writes data from the array pointed to, by **ptr** to the given **stream**.

Declaration

Following is the declaration for fwrite() function.

```
size_t fwrite(const void *ptr, size_t size, size_t nmemb, FILE *stream)
```

Parameters

- **ptr** − This is the pointer to the array of elements to be written.
- **size** − This is the size in bytes of each element to be written.
- **nmemb** − This is the number of elements, each one with a size of **size** bytes.
- **stream** − This is the pointer to a FILE object that specifies an output stream.

Return Value

This function returns the total number of elements successfully returned as a size_t object, which is an integral data type. If this number differs from the nmemb parameter, it will show an error.

Example

The following example shows the usage of fwrite() function.

```
#include<stdio.h>

int main () {
   FILE *fp;
   char str[] = "This is tutorialspoint.com";

   fp = fopen( "file.txt" , "w" );
   fwrite(str , 1 , sizeof(str) , fp );

   fclose(fp);

   return(0);
}
```

Let us compile and run the above program that will create a file **file.txt** which will have following content −

```
This is tutorialspoint.com
```

Now let's see the content of the above file using the following program −

```
#include <stdio.h>

int main () {
   FILE *fp;
   int c;

   fp = fopen("file.txt","r");
   while(1) {
      c = fgetc(fp);
      if( feof(fp) ) {
         break ;
      }
      printf("%c", c);
   }
   fclose(fp);
   return(0);
}
```

Let us compile and run the above program to produce the following result −

```
This is tutorialspoint.com
```