C library function - fseek()

Description

The C library function **int fseek(FILE *stream, long int offset, int whence)** sets the file position of the **stream** to the given **offset**.

Declaration

Following is the declaration for fseek() function.

```
int fseek(FILE *stream, long int offset, int whence)
```

Parameters

- **stream** − This is the pointer to a FILE object that identifies the stream.
- **offset** − This is the number of bytes to offset from whence.
- **whence** − This is the position from where offset is added. It is specified by one of the following constants −

Sr.No.	Constant & Description
1	**SEEK_SET** Beginning of file
2	**SEEK_CUR** Current position of the file pointer
3	**SEEK_END** End of file

Return Value

This function returns zero if successful, or else it returns a non-zero value.

Example

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

```c
#include <stdio.h>

int main () {
   FILE *fp;

   fp = fopen("file.txt","w+");
   fputs("This is tutorialspoint.com", fp);

   fseek( fp, 7, SEEK_SET );
   fputs(" C Programming Language", fp);
   fclose(fp);

   return(0);
}
```

Let us compile and run the above program that will create a file **file.txt** with the following content. Initially program creates the file and writes *This is tutorialspoint.com* but later we had reset the write pointer at 7th position from the beginning and used puts() statement which over-write the file with the following content −

```
This is C Programming Language
```

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

```c
#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 C Programming Language
```