

C library macro - NULL()

Description

The C library Macro **NULL** is the value of a null pointer constant. It may be defined as **((void*)0)**, **0** or **0L** depending on the compiler vendor.

Declaration

Following may be the declaration for NULL Macro depending on the compiler.

```
#define NULL ((char *)0)
```

or

```
#define NULL 0L
```

or

```
#define NULL 0
```

Parameters

- ☐ NA

Return Value

- ☐ NA

Example

The following example shows the usage of NULL Macro.

```
#include <stddef.h>
#include <stdio.h>

int main () {
    FILE *fp;

    fp = fopen("file.txt", "r");
    if( fp != NULL ) {
        printf("Opend file file.txt successfully\n");
        fclose(fp);
    }
}
```

[Live Demo](#)

```
}

fp = fopen("nofile.txt", "r");
if( fp == NULL ) {
    printf("Could not open file nofile.txt\n");
}

return(0);
}
```

Assuming we have an existing file **file.txt** but **nofile.txt** does not exist. Let us compile and run the above program that will produce the following result –

```
Open file file.txt successfully
Could not open file nofile.txt
```