Copyright © tutorials point.com

Description

The C library macro **void assert(int expression)** allows diagnostic information to be written to the standard error file. In other words, can be used to add diagnostics in your C program.

Declaration

Following is the declaration for assert() Macro.

```
void assert(int expression);
```

Parameters

expression -- This can be a variable or any C expression. If expression evaluates to TRUE, assert() does nothing. If expression evaluates to FALSE, assert() displays an error message on stderr and aborts program execution.

Return Value

This macro does not return any value.

Example

The following example shows the usage of assert() macro

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

int main()
{
   int a;
   char str[50];

   printf("Enter an integer value: ");
   scanf("%d\n", &a);
   assert(a >= 10);
   printf("Integer entered is %d\n", a);

   printf("Enter string: ");
   scanf("%s\n", &str);
   assert(str != NULL);
   printf("String entered is: %s\n", str);

   return(0);
}
```

Let us compile and run the above program in interactive mode as shown below:

```
Enter an integer value: 11
Integer entered is 11
Enter string: tutorialspoint
String entered is: tutorialspoint
```