C LIBRARY FUNCTION - RAISE

http://www.tutorialspoint.com/c standard library/c function raise.htm

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Description

The C library function **int raise**intsig causes signal **sig** to be generated. The **sig** argument is compatible with the SIG macros.

Declaration

Following is the declaration for signal function.

```
int raise(int sig)
```

Parameters

 sig — This is the signal number to send. Following are few important standard signal constants —

macro	signal
SIGABRT	Signal Abort Abnormal termination, such as is initiated by the abort function.
SIGFPE	Signal Floating - Point Exception Erroneous arithmetic operation, such as zero divide or an operation resulting in overflow notnecessarily with a floating - point operation.
SIGILL	SignalIllegalInstruction Invalid function image, such as an illegal instruction. This is generally due to a corruption in the code or to an attempt to execute data.
SIGINT	SignalInterrupt Interactive attention signal. Generally generated by the application user.
SIGSEGV	SignalSegmentationViolation Invalid access to storage — When a program tries to read or write outside the memory it is allocated for it.
SIGTERM	SignalTerminate Termination request sent to program.

Return Value

This function returns zero if successful, and non-zero otherwise.

Example

The following example shows the usage of signal function.

```
printf("Going to raise a signal\n");
  ret = raise(SIGINT);

if( ret !=0 )
{
    printf("Error: unable to raise SIGINT signal.\n");
    exit(0);
}

printf("Exiting...\n");
  return(0);
}

void signal_catchfunc(int signal)
{
    printf("!! signal caught !!\n");
}
```

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

```
Going to raise a signal
!! signal caught !!

Eviting
Loading [MathJax]/jax/output/HTML-CSS/jax.js
```