

C LIBRARY FUNCTION - LOG

http://www.tutorialspoint.com/c_standard_library/c_function_log.htm

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Description

The C library function **double logdoublex** returns the natural logarithm *base – e* logarithm of **x**.

Declaration

Following is the declaration for log function.

```
double log(double x)
```

Parameters

- **x** – This is the floating point value.

Return Value

This function returns natural logarithm of x.

Example

The following example shows the usage of log function.

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

int main ()
{
    double x, ret;
    x = 2.7;

    /* finding log(2.7) */
    ret = log(x);
    printf("log(%lf) = %lf", x, ret);

    return(0);
}
```

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

```
log(2.700000) = 0.993252
```

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