C library function - sinh()

Description

The C library function **double sinh(double x)** returns the hyperbolic sine of **x**.

Declaration

Following is the declaration for sinh() function.

```
double sinh(double x)
```

Parameters

- ▢ **x** − This is the floating point value.

Return Value

This function returns hyperbolic sine of x.

Example

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

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

int main () {
   double x, ret;
   x = 0.5;

   ret = sinh(x);
   printf("The hyperbolic sine of %lf is %lf degrees", x, ret);

   return(0);
}
```

Let us compile and run the above program, this will produce the following result −

```
The hyperbolic sine of 0.500000 is 0.521095 degrees
```