C library function - pow()

Description

The C library function **double pow(double x, double y)** returns **x** raised to the power of **y** i.e. x^y.

Declaration

Following is the declaration for pow() function.

```
double pow(double x, double y)
```

Parameters

- **x** − This is the floating point base value.
- **y** − This is the floating point power value.

Return Value

This function returns the result of raising **x** to the power **y**.

Example

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

Live Demo

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

int main () {
   printf("Value 8.0 ^ 3 = %lf\n", pow(8.0, 3));

   printf("Value 3.05 ^ 1.98 = %lf", pow(3.05, 1.98));

   return(0);
}
```

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

```
Value 8.0 ^ 3 = 512.000000
Value 3.05 ^ 1.98 = 9.097324
```