

C library function - fmod()

Description

The C library function **double fmod(double x, double y)** returns the remainder of **x** divided by **y**.

Declaration

Following is the declaration for fmod() function.

```
double fmod(double x, double y)
```

Parameters

- **x** – This is the floating point value with the division numerator i.e. x.
- **y** – This is the floating point value with the division denominator i.e. y.

Return Value

This function returns the remainder of dividing x/y.

Example

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

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

int main () {
    float a, b;
    int c;
    a = 9.2;
    b = 3.7;
    c = 2;
    printf("Remainder of %f / %d is %lf\n", a, c, fmod(a,c));
    printf("Remainder of %f / %f is %lf\n", a, b, fmod(a,b));

    return(0);
}
```

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

```
Remainder of 9.200000 / 2 is 1.200000  
Remainder of 9.200000 / 3.700000 is 1.800000
```