C library function - div()

Description

The C library function **div_t div(int numer, int denom)** divides **numer (numerator)** by **denom (denominator)**.

Declaration

Following is the declaration for div() function.

```
div_t div(int numer, int denom)
```

Parameters

- **numer** − This is the numerator.
- **denom** − This is the denominator.

Return Value

This function returns the value in a structure defined in <cstdlib>, which has two members. For div_t:*int quot; int rem;*

Example

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

Live Demo

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

int main () {
   div_t output;

   output = div(27, 4);
   printf("Quotient part of (27/ 4) = %d\n", output.quot);
   printf("Remainder part of (27/4) = %d\n", output.rem);

   output = div(27, 3);
   printf("Quotient part of (27/ 3) = %d\n", output.quot);
   printf("Remainder part of (27/3) = %d\n", output.rem);

   return(0);
}
```

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

```
Quotient part of (27/ 4) = 6
Remainder part of (27/4) = 3
Quotient part of (27/ 3) = 9
Remainder part of (27/3) = 0
```