

Answer on Question #38210, Programming, AJAX | JavaScript | HTML | PHP

Provided function gets the number and factor and performs multiplying of absolute value of the number (i.e. non-negative value) and the factor.

The mathematical notation of function's result is:

$|number| \times factor$

Here is the example of function results for some (number, factor) pairs:

`multiplyAbsolute(2,3)` is 6

`multiplyAbsolute(-2,3)` is 6

`multiplyAbsolute(5,-4)` is -20

`multiplyAbsolute(-5,-4)` is -20

Below is the function code with comments.

```
//main function body, gets number and multiplier values
function multiplyAbsolute(number ,factor)
{
//inner function body, not accessible outside main function, gets
number, performs multiplying
    function multiply(number)
    {
        return number*factor;
    }
//check if number is negative
    if (number < 0)
        return multiply(-number); //if number is negative, change
it to positive, call the inner function
    else multiply(number); //if number if positive, perform no
changes, call the inner function
    }
}
```

The example of the function call:

```
alert(multiplyAbsolute(-3 ,4));
```

The code above would show popup window with function result: 12.

Also, the function result can be stored for later usage:

```
var result;
result = multiplyAbsolute(-3 ,4);
```

The code above would set **result** variable value to 12.

Please note that Javascript has built-in method to get absolute value: **Math.abs()**. The function can be simplified significantly using given method:

```
function multiplyAbsolute(number ,factor)
{
    return Math.abs(number)*factor;
}
```