S.No: 31	Exp. Name: *Write a C program to demonstrate Functions with arguments and with return value - Program to perform Arithmetic Operations using Functions*	Date:2023-01-08

Aim:

Write a program to find the addition , subtraction , multiplication and division of two integer variables using **functions**.

At the time of execution, the program should print the message on the console as:

```
Enter two values :
```

For example, if the user gives the **input** as:

```
Enter two values : 23 11
```

then the program should **print** the result as:

```
Addition of two values = 34
Subtraction of two values = 12
multiplication of two values = 253
division of two values = 2
```

Note: Write the functions in Program701a.c .

Source Code:

Program701.c

```c
#include <stdio.h>
#include "Program701a.c"
void main() {
    int a, b;
    printf("Enter two values : ");
    scanf("%d%d", &a, &b);
    printf("Addition of two values = %d\n", sum(a, b));
    printf("Subtraction of two values = %d\n", sub(a, b));
    printf("multiplication of two values = %d\n", mul(a, b));
    printf("division of two values = %d\n", div(a, b));
}
```

Program701a.c

```c
int sum(int a,int b);
int sub(int a,int b);
int mul(int a,int b);
int div(int a,int b);
int sum(int a,int b)
{
    return(a+b);
}
int sub(int a,int b)
{
    return(a-b);
```

```
{
    return(a*b);
}
int div(int a,int b)
{
    return(a/b);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter two values : 23 11
Addition of two values = 34
Subtraction of two values = 12
multiplication of two values = 253
division of two values = 2

Test Case - 2
User Output
Enter two values : 55 5
Addition of two values = 60
Subtraction of two values = 50
multiplication of two values = 275
division of two values = 11