```c
/*Write a program in C using functions and pointers to display addition, subtraction, multiplication,

division of two numbers

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rollno-588 (E3)*/

#include<stdio.h>

  // function declaration of addition subtraction multiplication and division

void addition(int, int, int*);

void subtraction(int,int,int*);

void multiplication(int,int,int*);

void division(int,int,int*);


int main()

{

    int a, b, c;

  // asking two input numbers from user

    printf("Enter 2 numbers\n");

    scanf("%d%d", &a, &b);


    addition(a, b, &c);


    printf("addition of %d + %d = %d\n", a, b, c);

  //printing addition

    subtraction(a, b, &c);

    printf(" subtraction of  %d - %d = %d\n", a, b, c);

  //printing subtraction

    multiplication(a, b, &c);

    printf("multiplication of%d * %d = %d\n", a, b, c);

    //printing multiplication

    division(a, b, &c);
```

```c
    printf("division of %d / %d = %d\n", a, b, c);

    //printing division

}

 // performing addition

void addition(int x, int y, int *z)

{

    *z = x + y;

}
// performing subtraction

void subtraction(int x, int y, int *z)

{

    *z = x - y;

}
// performing multiplication

void multiplication(int x, int y, int *z)

{

    *z = x * y;

}
//performing division

void division(int x, int y, int *z)

{

    *z = x / y;

}
/*
output-
Enter 2 numbers
22
12
addition of 22 + 12 = 34
```

subtraction of 22 - 12 = 10

multiplication of22 * 12 = 264

division of 22 / 12 = 1

Process exited after 6.957 seconds with return value 24

Press any key to continue . . .*/

Part 2

```c
// roll no-588(E3) Parimal Muley
//program to swap two numbers
#include <stdio.h>

// declaring swap function
void swap(int *num1, int *num2)
{
    int temp = *num1;
    *num1 = *num2;
    *num2 = temp;
}
  //declaring main function
int main()
```

```c
{
    int first_no,second_no;

    printf("Enter Value of first_no ");

    //getting value of num 1

    scanf("%d", &first_no);

    printf("\nEnter Value of second_no ");

    //getting value of num 2

    scanf("%d", &second_no);

    swap(&first_no, &second_no);

    printf("\nAfter Swapping: first_no = %d, second_no = %d", first_no,
second_no);

    return 0;
}
/*Enter Value of first_no 13


Enter Value of second_no 21


After Swapping: first_no = 21, second_no = 13

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Process exited after 7.826 seconds with return value 0

Press any key to continue . . .*/
```