```
#include <stdio.h>
 3 int main(void)
 4 {
 5
        //function declarations
        void MathematicalOperations(int, int, int *, int *, int *, int *, int *);
 6
 7
 8
        //variable declaration
 9
        int a;
10
        int b;
11
        int answer sum;
12
        int answer difference;
13
        int answer product;
14
        int answer_quotient;
        int answer_remainder;
15
16
17
        //code
        printf("\n\n");
18
19
        printf("Enter Value Of 'A' : ");
20
        scanf("%d", &a);
21
        printf("\n\n");
22
        printf("Enter Value Of 'B' : ");
23
24
        scanf("%d", &b);
25
        // PASSING ADDRESSES TO FUNCTION ... FUNCTION WILL FILL THEM UP WITH
26
                                                                                     P
          VALUES ... HENCE, THEY GO INTO THE FUNCTION AS ADDRESS PARAMETERS AND
          COME OUT OF THE FUNCTION FILLED WITH VALID VALUES
27
        // THUS, (&answer_sum, &answer_difference, &answer_product,
                                                                                     P
          &answer_quotient, &answer_remainder) ARE CALLED "OUT PARAMETERS" OR
                                                                                     P
          "PARAMETERIZED RETURN VALUES" ... RETURN VALUES OF FUNCTIONS COMING VIA
          PARAMETERS
        // HENCE, ALTHOUGH EACH FUNCTION HAS ONLY ONE RETURN VALUE, USING THE
28
                                                                                     P
          CONCEPT OF "PARAMETERIZED RETURN VALUES", OUR FUNCTION
                                                                                     P
          "MathematicalOperations()" HAS GIVEN US 5 RETURN VALUES !!!
29
30
        MathematicalOperations(a, b, &answer_sum, &answer_difference,
                                                                                     P
          &answer product, &answer quotient, &answer remainder);
31
32
        printf("\n\n");
        printf("***** RESULTS ****** : \n\n");
33
        printf("Sum = %d\n\n", answer sum);
35
        printf("Difference = %d\n\n", answer_difference);
        printf("Product = %d\n\n", answer_product);
36
        printf("Quotient = %d\n\n", answer_quotient);
37
        printf("Remainder = %d\n\n", answer_remainder);
38
        return(0);
39
40 }
41
42
   void MathematicalOperations(int x, int y, int *sum, int *difference, int
      *product, int *quotient, int *remainder)
43
        //code
44
45
        *sum = x + y;
                            // Value at address 'sum' = (x + y)
        *difference = x - y; // Value at address 'difference' = (x - y)
46
47
        *product = x * y; // Value at address 'product' = (x * y)
```

```
...nterAsOutParameter\01-MethodOne\PointerAsOutParameter.c

48 *quotient = x / v: // Value at add.
             *quotient = x / y; // Value at address 'quotient' = (x / y) *remainder = x % y; // Value at address 'remainder' = (x % y)
49
50 }
51
```