

```
1  #include <stdio.h>
2
3  enum
4  {
5      NEGATIVE = -1,
6      ZERO,
7      POSITIVE
8  };
9
10 int main(void)
11 {
12     //function declarations
13     int Difference(int, int, int *);
14
15     //variable declaration
16     int a;
17     int b;
18     int answer, ret;
19
20     //code
21     printf("\n\n");
22     printf("Enter Value Of 'A' : ");
23     scanf("%d", &a);
24
25     printf("\n\n");
26     printf("Enter Value Of 'B' : ");
27     scanf("%d", &b);
28
29     ret = Difference(a, b, &answer);
30
31     printf("\n\n");
32     printf("Difference Of %d And %d = %d\n\n", a, b, answer);
33
34     if (ret == POSITIVE)
35         printf("The Difference Of %d And %d Is Positive !!!\n\n", a, b);
36
37     else if (ret == NEGATIVE)
38         printf("The Difference Of %d And %d Is Negative !!!\n\n", a, b);
39
40     else
41         printf("The Difference Of %d And %d Is Zero !!!\n\n", a, b);
42
43     return(0);
44 }
45
46 // WE WANT OUR FUNCTION Difference() TO PERFORM 2 JOBS ...
47 // ONE, IS TO SUBTRACT THE INPUT NUMBERS ('y' FROM 'x') AND THE SECOND, IS TO TELL ➤
48 // WHETHER THE DIFFERENCE OF 'x' AND 'y' IS POSITIVE or NEGATIVE or ZERO ...
49 // BUT ANY FUNCTION HAS ONLY ONE VALID RETURN VALUE, THEN HOW CAN WE MANAGE TO ➤
50 // RETURN TWO VALUES TO THE CALLING FUNCTION?
51
52 // THIS IS WHERE PARAMETERIZED RETURN VALUE COMES INTO THE PICTURE ...
53 // WE CAN RETURN THE ACTUAL DIFFERENCE OF 'x' AND 'y', THAT IS, THE ACTUAL ANSWER ➤
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    VALUE, VIA OUT-PARAMETER / PARAMETERIZED RETURN VALUE
51 // AND WE CAN RETURN THE STATUS OF THE ANSWER (POSITIVE / NEGATIVE / ZERO) VIA THE ↗
    ACTUAL RETURN VALUE OF THE FUNCTION ...
52
53 int Difference(int x, int y, int *diff)
54 {
55     //code
56     *diff = x - y;
57
58     if (*diff > 0)
59         return(POSITIVE);
60
61     else if (*diff < 0)
62         return(NEGATIVE);
63
64     else
65         return(ZERO);
66 }
67
68
```