

```
1  #include <stdio.h>
2
3  int main(void)
4  {
5      //variable declarations
6      int a;
7      int b;
8      int x;
9
10     //code
11     printf("\n\n");
12     printf("Enter A Number : ");
13     scanf("%d", &a);
14
15     printf("\n\n");
16     printf("Enter Another Number : ");
17     scanf("%d", &b);
18
19     printf("\n\n");
20
21     //Since, In All The Following 5 Cases, The Operand on The Left 'a' Is
        Getting Repeated Immeiately On The Right (e.g : a = a + b or a = a -b),
22     //We Are Using Compound Assignment Operators +=, -=, *=, /= and %=
23
24     //Since, 'a' Will Be Assigned The Value Of (a + b) At The Expression (a +=
        b), We Must Save The Original Value Of 'a' To Another Variable (x)
25     x = a;
26     a += b; // a = a + b
27     printf("Addition Of A = %d And B = %d Gives %d.\n", x, b, a);
28
29     //Value Of 'a' Altered In The Above Expression Is Used Here...
30     //Since, 'a' Will Be Assigned The Value Of (a - b) At The Expression (a -=
        b), We Must Save The Original Value Of 'a' To Another Variable (x)
31     x = a;
32     a -= b; // a = a - b
33     printf("Subtraction Of A = %d And B = %d Gives %d.\n", x, b, a);
34
35     //Value Of 'a' Altered In The Above Expression Is Used Here...
36     //Since, 'a' Will Be Assigned The Value Of (a * b) At The Expression (a *=
        b), We Must Save The Original Value Of 'a' To Another Variable (x)
37     x = a;
38     a *= b; // a = a * b
39     printf("Multiplication Of A = %d And B = %d Gives %d.\n", x, b, a);
40
41     //Value Of 'a' Altered In The Above Expression Is Used Here...
42     //Since, 'a' Will Be Assigned The Value Of (a / b) At The Expression (a /=
        b), We Must Save The Original Value Of 'a' To Another Variable (x)
43     x = a;
44     a /= b; // a = a / b
45     printf("Division Of A = %d And B = %d Gives Quotient %d.\n", x, b, a);
46
47     //Value Of 'a' Altered In The Above Expression Is Used Here...
48     //Since, 'a' Will Be Assigned The Value Of (a % b) At The Expression (a %=
        b), We Must Save The Original Value Of 'a' To Another Variable (x)
49     x = a;
50     a %= b; // a = a % b
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51     printf("Division Of A = %d And B = %d Gives Remainder %d.\n", x, b, a);
52
53     printf("\n\n");
54
55     return(0);
56 }
57
```