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# Assignment Operators in C



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## Introduction to Assignment Operators in C

Assignment operators are used for assigning value to the variable. Like any other operator, C also supports Assignment Operator which is a binary operator that operates on any two operands. It has 2 values such as the right value and the left value. It has lower precedence than all available operators but has higher precedence than the comma operator.





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- **The simple assignment operator (=):** This operator Assigns values from the right operands to the left operand.
- **Add AND operator (+=):** This operator adds the right operand to the left operand and assigns the output to the left operand.
- **Subtract AND operator (-=):** This operator subtracts the right operand from the left operand and assigns the result to the left operand.
- **Multiply AND operator (\*=):** This operator multiplies the right operand with the left operand and assigns the result to the left operand.
- **Divide AND operator (/=):** This operator divides the left operand with the right operand and assigns the result to the left operand.
- **Modulus AND operator (%=):** This operator takes modulus using two operands and assigns the result to the left operand.

There are many other assignment operators such as Left shift AND (<<=) operator, Right shift AND operator (>>=), Bitwise AND assignment operator (&= ), Bitwise exclusive OR and assignment operator (^=), Bitwise inclusive OR and assignment operator(|=)

## Examples of Assignment Operators in C

Examples of Assignment Operators are given below:

### Example #1

Program to implement the use of = operator:

**Code:**





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```
{  
int X, Y, total;  
printf("Enter the value of X: ");  
scanf("%d",&X);  
printf("Enter the value of Y: ");  
scanf("%d",&Y);  
total = X + Y;  
printf("%d", total);  
return 0;  
}
```

Output:

```
Enter the value of X: 6  
Enter the value of Y: 5  
11
```

## Example #2

Program to implement the use of Add AND operator (+=) in C:

Code:

```
#include<stdio.h>  
#include<conio.h>  
int main()  
  
{
```





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```
scanf("%d",&Y);  
Y += X;  
printf("%d", Y);return 0;  
}
```

Output:

```
Enter the value of X: 5  
Enter the value of Y: 8  
13
```

## Example #3

Program to use Subtract AND operator (- =) in C:

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### Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int X, Y;
    printf("Enter the value of X: ");
    scanf("%d",&X);
    printf("Enter the value of Y: ");
    scanf("%d",&Y);
    Y -= X;
    printf("%d", Y);return 0;
}
```

### Output:

```
Enter the value of X: 6
Enter the value of Y: 3
-3
```



## Example #4

Program to use Multiply AND operator (\*=) in C:



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```
#include<conio.h>

int main()
{
    int X, Y;
    printf("Enter the value of X: ");
    scanf("%d",&X);
    printf("Enter the value of Y: ");
    scanf("%d",&Y);
    Y *= X;
    printf("%d", Y);
    return 0;
}
```

Output:

```
Enter the value of X: 2
Enter the value of Y: 3
6
```

## Example #5

Program to use Divide AND operator (/=) in C:

Code:





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```
printf("Enter the value of X: ");
scanf("%d",&X);
printf("Enter the value of Y: ");
scanf("%d",&Y);
Y /= X;
printf("%d", Y);
return 0;
}
```

Output:

```
Enter the value of X: 5
Enter the value of Y: 20
4
```

## Example #6

Program to use Modulus AND operator (%=) in C

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int X, Y;

    printf("Enter the value of X: ");
```





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```
printf("%d", Y);  
return 0;  
}
```

Output:

```
Enter the value of X: 24  
Enter the value of Y: 4  
4
```

## Example #7

Program to use Left shift AND (<=) operator in C

Code:

```
#include<stdio.h>  
#include<conio.h>  
int main()  
{  
    int X, Y;  
    printf("Enter the value of X: ");  
    scanf("%d",&X);  
    X <= 2;  
    printf("%d", X);  
    return 0;  
}
```







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## Example #8

Program to use Right shift AND (>>=) operator in C

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int X, Y;
    printf("Enter the value of X: ");
    scanf("%d",&X);
    X >>= 2;
    printf("%d", X);
    return 0;
}
```

Output:

```
Enter the value of X: 40
10
```

## Example #9

Program to use Bitwise AND assignment operator (&= ) in C

Code:





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```
{
int X, Y;
printf("Enter the value of X: ");
scanf("%d",&X);
X &= 2;
printf("%d", X);
return 0;
}
```

Output:

```
Enter the value of X: 20
0
```

## Example #10

Program to use Bitwise exclusive OR and assignment operator (^=)

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
int X, Y;
printf("Enter the value of X: ");

scanf("%d",&X);
```





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Output:

```
Enter the value of X: 50
48
```

## Example #11

Program to use Bitwise inclusive OR and assignment operator (|=) in C

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int X, Y;
    printf("Enter the value of X: ");
    scanf("%d",&X);
    X |= 2;
    printf("%d", X);
    return 0;
}
```

Output:

```
Enter the value of X: 4
```





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Operators in C along with the examples. You can also go through our other suggested articles to learn more –

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