OPERATORS

Operator is a special symbol designed for a particular task[work]. In C we are having 44 operators and 14 separators. Operator works on operands.

Based on number of operands participating in operation, the operators divided into 3 types.

1. Unary operator: Require one operand operand.

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Eg: a++, a--, ++a, --a, sizeof(a), +a, -a, ~a, !a,...
```

2. Binary operator: Require two operands.

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Eg: a+b, a-b, a>b, a<=b, a==b, a!=b, a<<b, a>>b,...
```

3. Ternary / conditional operator: Require three operands / expressions.

Eg:

Conditional part ? true part : false part;

Based on operation the operators divided into several types.

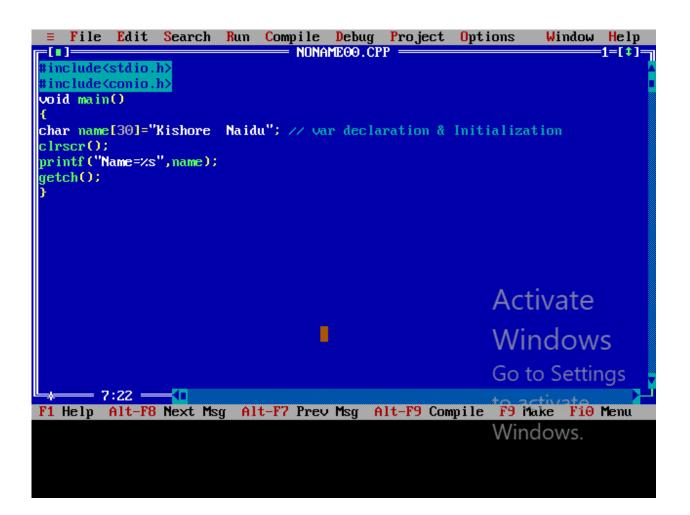
1. Assignment operator [=]: It copies the value on its right side into the variable on its left side. In assignment operation, the left hand side [LHS] operand should be a variable. i.e. on left hand side constants or expressions not allowed.

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Eg: int a=10;
```

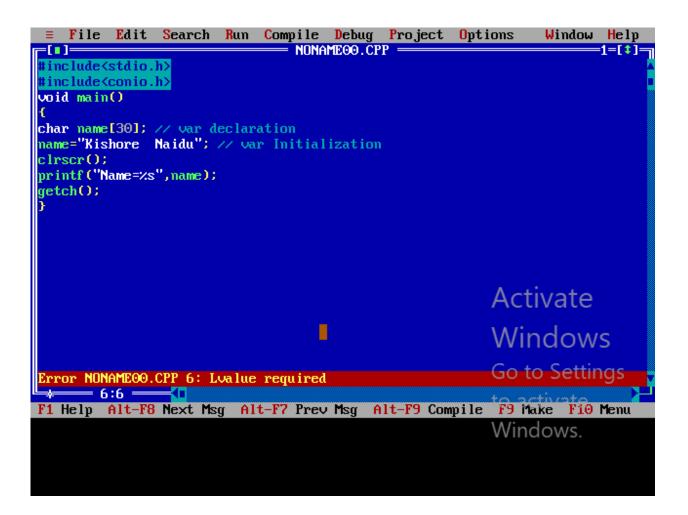
```
float b=1.2;
char c='X';
char name[]="Kishore";
char name[]; ← Error
char name[10]; /* var declaration */
name = "kishore"; /* initialization */ ← Error
Note: In C & C++ we can't initialize a string using =
operator. For this we have to use strcpy() predefined
function available in <string.h>
If we are trying to enter / change a string value, the
compiler gives an error called Lvalue error which means
Left side value can't be change.
```

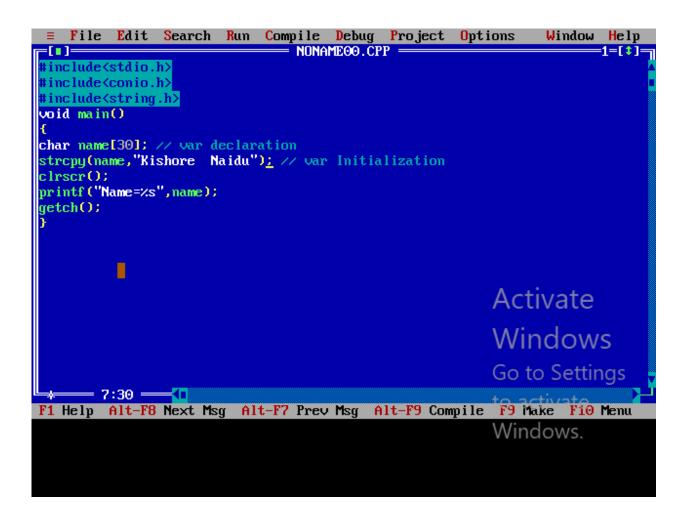
```
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    ■ NONAMEOO.CPP
                                                                 Window Help
                                                                        -1=[‡]=
#include<stdio.h>
#include<conio.h>
∪oid main()
int a: // var declaration
float b:
char c;
clrscr();
a=10; // initialization
b=1.2;
c='X';
printf("a=xd, b=xf, c=x<u>c</u>", a,b,c);
getch();
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 F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
                                                          Windows.
```

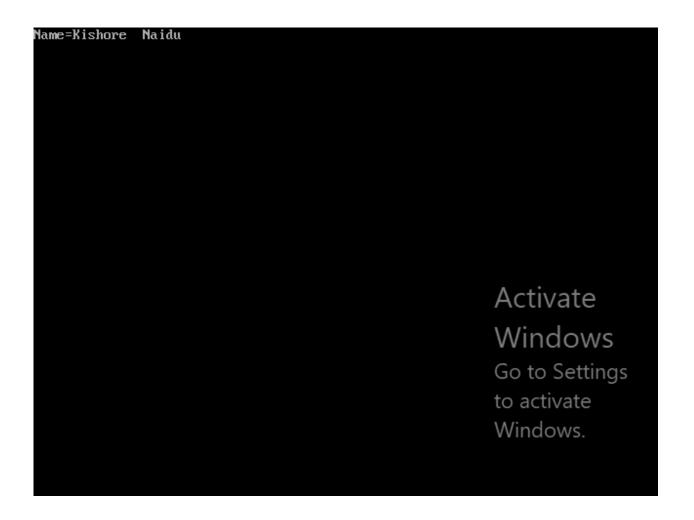
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to activate
Windows.



Name=Kishore	Naidu	
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		Windows
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		to activate
		Windows.







Eg:

10=20; → Lvalue error → 10 is a constant



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Eg:
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Eg:

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    ■ NONAME00.CPP ■ NONAME00.
                                                                     Window Help
                                                                            =1=[‡]=
#include<stdio.h>
#include<comio.h>
#include<string.h>
∨oid main()
int a,b<mark>;c; // v</mark>ar dec
clrscr();
a=b=c=100;
printf("a=%d, b=%d, c=%d",a,b,c);_
getch();
                                                             Activate
                                                             Windows
                                                             Go to Settings
 F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
                                                              Windows.
```

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