**Arithmetic operator:**

var a int = 12

var b int = 3

fmt.Println("ex. of '+' operator:", a+b) // print “ex. of '+' operator: 15”

fmt.Println("ex. of '-' operator:", a-b) // print “ex. of '-' operator: 9”

fmt.Println("ex. of '\*' operator:", a\*b) // print “ex. of '\*' operator: 36”

fmt.Println("ex. of '/' operator:", a/b) // print “ex. of '/' operator: 4”

fmt.Println("ex. of '%' operator:", a%b) // print “ex. of '%' operator: 0”

a++;

fmt.Println("ex. of '++' operator:", a) // print “ex. of '++' operator: 13”

b--;

fmt.Println("ex. of '--' operator:", b) // print “ex. of '--' operator: 2”

**Relational operator:**

var a int = 12

var b int = 3

fmt.Println("ex. of '==' operator:", a==b) // print ex. of '==' operator: false

fmt.Println("ex. of '!=' operator:", a!=b) // print ex. of '!=' operator: true

fmt.Println("ex. of '<' operator:", a<b) // print ex. of '<' operator: false

fmt.Println("ex. of '>' operator:", a>b) // print ex. of '>' operator: true

fmt.Println("ex. of '<=' operator:", a<=b) // print ex. of '<=' operator: false

fmt.Println("ex. of '>=' operator:", a>=b) // print ex. of '>=' operator: true

**Logical operator:**

var a int = 12

var b int = 3

fmt.Println("ex. of '&&' operator:", a<b && a>b) //print ex. of '&&' operator: false

fmt.Println("ex. of '&&' operator:", a<b && a<=b) //print ex. of '&&' operator: false

fmt.Println("ex. of '||' operator:", a<b || a>b) // print ex. of '||' operator: true

fmt.Println("ex. of '||' operator:", a<b || a>b) // print ex. of '||' operator: true

fmt.Println("ex. of '!' operator:", !(a<b && a>b)) // print ex. of '!' operator: true

**Bitwise operator:**

var a int = 50

var b int = 6

fmt.Println("a&b is:", a&b) //prints a&b is: 2

fmt.Println("a|b is:", a|b) //prints a|b is: 54

fmt.Println("a^b is:", a^b) //prints a^b is: 52

fmt.Println("a<<b is:", b<<2) //prints a<<b is: 24

fmt.Println("a>>b is:", a>>5) //prints a>>b is: 1

**Assignment operator:**

var a int = 50 //simple assignment

var b int = 5

a += b

fmt.Println("ex. of '+=' operator:", a) //prints ex. of '+=' operator: 55

a -= b

fmt.Println("ex. of '-=' operator:", a) //prints ex. of '-=' operator: 50

a \*= 3

fmt.Println("ex. of '\*=' operator:", a) //prints ex. of '\*=' operator: 150

a /= b

fmt.Println("ex. of '/=' operator:", a) //prints ex. of '/=' operator: 30

a %= 7

fmt.Println("ex. of '%=' operator:", a) //prints ex. of '%=' operator: 2

b <<= 2

fmt.Println("ex. of '<<=' operator:", b) //prints ex. of '<<=' operator: 20

b >>= 2

fmt.Println("ex. of '>>=' operator:", b) //prints ex. of '>>=' operator: 5

a &= 10

fmt.Println("ex. of '&=' operator:", a) //prints ex. of '&=' operator: 2

a ^= 10

fmt.Println("ex. of '^=' operator:", a) //prints ex. of '^=' operator: 8

a |= 10

fmt.Println("ex. of '|=' operator:", a) //prints ex. of '|=' operator: 10

c := "hello world"

fmt.Println("ex. of ':=' operator:", c) //prints ex. of ':=' operator: hello world

**Miscellaneous operator:**

package main

import ("fmt"

"unsafe"

"reflect"

)

func main(){

var a int64 = 100

fmt.Println("size of variable a:", unsafe.Sizeof(a)) //prints 8

fmt.Println("size of variable a:", reflect.TypeOf(a).Size()) //prints 8

fmt.Println("address of variable a:", &a) //prints Address of variable a

fmt.Println("value of a at specified address:", \*(&a)) //prints value at specified address in a 100

}