Golang Session

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Topic : Operators

Arithmetic Operators

```
package main
import "fmt"
func main() {
        var x, y = 35, 7
        fmt.Printf("x + y = %d\n", x+y)
        fmt.Printf("x - y = %d\n", x-y)
        fmt.Printf("x * y = %d\n", x*y)
        fmt.Printf("x / y = %d\n", x/y)
        fmt.Printf("x mod y = %d\n", x%y)
        x++
        fmt.Printf("x++ = %d\n", x)
        y--
        fmt.Printf("y-- = %d\n", y)
}
```

Assignment Operators

```
package main
import "fmt"
func main() {
        var x, y = 15, 25
        x = y
        fmt.Println("= ", x)
        x = 15
        x += y
        fmt.Println("+=", x)
        x = 50
        x -= y
        fmt.Println("-=", x)
        x = 2
        x *= y
        fmt.Println("*=", x)
        x = 100
        x /= y
        fmt.Println("/=", x)
        x = 40
        x %= y
        fmt.Println("%=", x)
}
```

Comparison Operators

```
package main
import "fmt"
func main() {
        var x, y = 15, 25
        fmt.Println(x == y)
        fmt.Println(x != y)
        fmt.Println(x < y)
        fmt.Println(x <= y)
        fmt.Println(x > y)
        fmt.Println(x >= y)
}
```

Logical Operators

```
package main
import "fmt"
func main() {
        var x, y, z = 10, 20, 30
        fmt.Println(x < y && x > z)
        fmt.Println(x < y || x > z)
        fmt.Println(!(x == y && x > z))
}
```

Bitwise Operators

```
package main
import "fmt"
func main() {
        var x uint = 9  //0000 1001
        var y uint = 65 //0100 0001
        var z uint
        z = x & y
        fmt.Println("x & y  =", z)
        z = x | y
        fmt.Println("x | y  =", z)
        z = x ^ y
        fmt.Println("x ^ y  =", z)
        z = x << 1
        fmt.Println("x << 1 =", z)
        z = x >> 1
        fmt.Println("x >> 1 =", z)
}
```