

Go Type Casting

- Type casting means conversion of a variable from one data type to another. The value may be lost when a large type is converted to a smaller type.
- To convert int to float use :- `float64(i)`, where `i` is the integer
- To convert float to Int use :- `int(f)`, where `f` is float
- To convert String to integer use `strconv` package and `parseInt` :- `strconv.ParseInt(str1,0,64)`
- To convert String to float use `strconv` package and `parseFloat` :- `strconv.ParseFloat(str2,64)`

Example:-

```
package main

import (
    "fmt"
    "strconv"
)

func main() {
    var i int = 10
    var f float64 = 6.44
    var str1 string = "101"
    var str2 string = "10.123"

    fmt.Println(float64(i)) // converted int to
float
    fmt.Println(int(f))      // converted float to
int

    newInt, _ := strconv.ParseInt(str1, 0, 64) //
string converted to int
    fmt.Println(newInt)
```

```
    newFloat, _ := strconv.ParseFloat(str2, 64) //
string converted to float

    fmt.Println(newFloat)
}
```

Output :-

```
10
6
101
10.123
```