

FACULTY OF ENGINEERING AND TECHNOLOGY
UNIVERSITY OF LUCKNOW
LUCKNOW



Computer System and Programming in 'C'
CS-101/201

Er. Zeeshan Ali Siddiqui
Assistant Professor
Deptt. of C.S.E.

Type Conversion and Typecasting

Type Conversion and Typecasting

- It is done when the expression has variables of different data types.
- Type conversion/Typecasting of variables refer to *changing a variable of one data type into another.*
- Type conversion-> **implicitly**
- Typecasting-> **explicitly**

Type Conversion

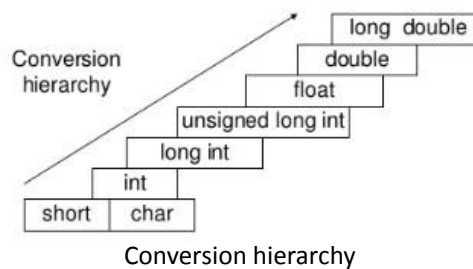
Type Conversion ^{1/2}

Type conversion is done automatically when we assign value of a small container (e.g. int) to a bigger container (e.g. float).

Example:
float x;
int y=2019;
x=y;

Now, **x=2019.000000**, as integer value automatically converted into its equivalent floating point representation.

Type Conversion ^{2/2}



Typecasting

Typecasting

- Typecasting is also known as *forced conversion*.
- Typecasting an arithmetic expression tells the compiler to represent the value of the expression in a certain way.

Example:

```
float result;  
int x=2019,y=2;  
result= (float) x/y;
```

Thank You.



BTQ

BTQ: Brain Teaser Question

A girl has as many brothers as sisters, but each brother has only half as many brothers as sisters. How many brothers and sisters are there in the family?

