

Type Conversion

```
int a;  
a = 1.7;  
printf("%.1d", a);  
①
```

$a = b;$

```
float a;  
a = 8;  
printf("%.1f", a);  
8.000000
```

Type Casting

① Explicit

② Temporary

③ With/without assignment op

V/s

Type Conversion

① Implicit

② Permanent

③ W.r.t. assignment op

① int a;
a = 10/4;
No TC

② int a;
a = 10/4.0;
TC is done

③ float a;
a = 10/4;
TC is done

④ float a;
a = 10/4.0;
TC is done

Different Types of Constants

25 \longrightarrow int \longrightarrow 2 B
const

'a' \longrightarrow char \longrightarrow 1 B
const

1.6 \longrightarrow double \longrightarrow 8 B
const

1.6f
or
1.6f } \longrightarrow float const \longrightarrow 4 B

$a = \underline{3.14} * r * r;$ This is double constant!

$\text{float } pi = 3.14;$
:
 $a = pi * r * r;$ This is float

1.7

1.699999

1.6999999999999999

float has a precision of 6 digits!

double has a precision of 15 digits!

① `float a;`
`a = 1.7;` TC is done

② `double a;`
`a = 1.7;` TC is not done

③ `float a;`
`a = 1.7f;` TC is not done



