## Type costing

(1) Allows you to change the data type of a variable from one type to another

2) Crucial when you need to

Perform oferations involving unriables of diffrent data types.

ensuring data is handled correctly.

## Implicit Type Conversion

- (i) Aka, Automatic type conversion
- 2) Compiler automatically converts one data type to another during an operation.
- 3) This happens when you Perjorm operations involving variables of diffrent data types & the compiler Promotes one type to a larger type to maintain Precision

```
int num1 = 10;
float num2 = 5.5;
float result = num1 + num2;
cout<<result<<endl;</pre>
```

int to

Joat

implicit

conversion

```
// 2. char to int
// char ch = 'A';
// int a = ch + 1; // Implicit conversion from char to int
// cout<<a<<endl;
66</pre>
```

```
// 3. int to char
// int a = 97;
// char ch = a; // Implicit conversion from int to char
// cout<<a<<endl;</pre>
```

## Explicit Type conversion

- Manual Type conversion
- 2) Allows you to explicitly specify the desized data type during an assignment (07) operation.

3) you can use the casting of exotor which is refresented by Paranthesis containing the target data type.

```
int num1 = 10;
float num2 = 5.5;
float result = num1 + (int)num2;
cout<<result<<endl;</pre>
```

```
Note:-

int/int int

int/bloat

float/int float.
```