

1 Basic structure of C++ program

```
#include <iostream> Header file -> input output  
int main() - function  
{  
    std::cout << "Hello"; output Hells  
    return 0; Successful termination.  
}
```

2 Variables

↓
Container to ^{Low level hardware se nigdeek} store data: ex- like storing water in a tank. ^{High level hardware se store data}

Some datatypes:-

int - 1, 0, 1 a=1
float - 1.1, 2.1 b=2
char - 'character' c=a+b

3 Comments

using namespace std;
int main()

^{single line comment} // This is comment — ignored by compiler
int a=3;
float b=3.5;
char c='c';

^{multi line comment} /* This is multi line comment. */ — also ignored

4 Variable types.

- 1 Int — 1, 0, 89
- 2 float — 2.7, 3.8
- 3 char — 'c', 'd' etc.
- 4 Double — 1.2189...
- 5 boolean — Yes, No, true, false

5 Variable scope — ^{important} region in which variable exist.

local variable

declared inside function
can be accessed there.

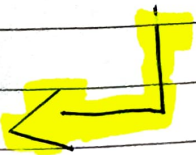
Global variable

declared outside function
accessed everywhere.

6 Datatypes

Built-in — {int, float, char, double, boolean}
user-defined
 ↳ Struct, Union, Enum — covered further
derived & Array, function, pointer

7 Input, Output



8 Keyword

bool

for

float

const

int

return

do

double

while

as

✓

etc... -!

```
#include <iostream>
```

```
using namespace std;
```

```
int a; → Global scope
```

```
int main() {
```

```
    int num1, num2; — local scope
```

```
    cout << "Enter first number: \n";
```

insertion operation

```
    cin >> num1;
```

takes

input from
user

extraction operator

```
    return 0;
```

```
}
```