



## Lesson 3 CPP cin

The "c" in **C++** cin refers to "character" and "in" means "input". Thus, **cin** means "character input". The C++ **cin** object belongs to the **istream** class. It accepts input from a standard input device, such as a keyboard.

**cin** in **C++** is similar to **scanf** in **C** language.

For reading inputs, the extraction operator(>>) is combined with the object **cin**. The data is extracted from the object cin, which is entered using the keyboard by the extraction operator.

Example :

```
#include <iostream>
using namespace std;
int main() {
    int num;
    cout << "Enter a number: ";
    // take integer input
    cin >> num;
    cout << "You entered: " << num;

    return 0;
}
```



### Output:

Enter a number: 25

You entered: 25

**What happens if the user enters a float while the variable is defined as an int ?** it will be considered as an integer!

Last Example :

### Output:

Enter a number: **5.98972**

You entered: **5**

If we want to enter a character :

```
#include <iostream>
using namespace std;
int main() {
    char x;
    cout << "Enter a character: ";
    // take integer input
    cin >> x;
    cout << "You entered: " << x;

    return 0;
}
```



## Output:

Enter a number: e

You entered: e

**cin** in **C++** automatically records the value of the variable according to the **type** of the variable stored in memory without the need for %d if it is an integer, %d if it is a decimal number, or %c if it's a character.

**If we want to enter a **bool**: (true - false) :**

```
#include <iostream>
using namespace std;
int main() {
    bool x;
    cout << "Please, Enter a num: ";
    cin >> x;
    cout << "The num is " << x<<endl;
}
```

**input :**

5

**output :**

1

Any number **different** from zero is considered **1** in **bool**.