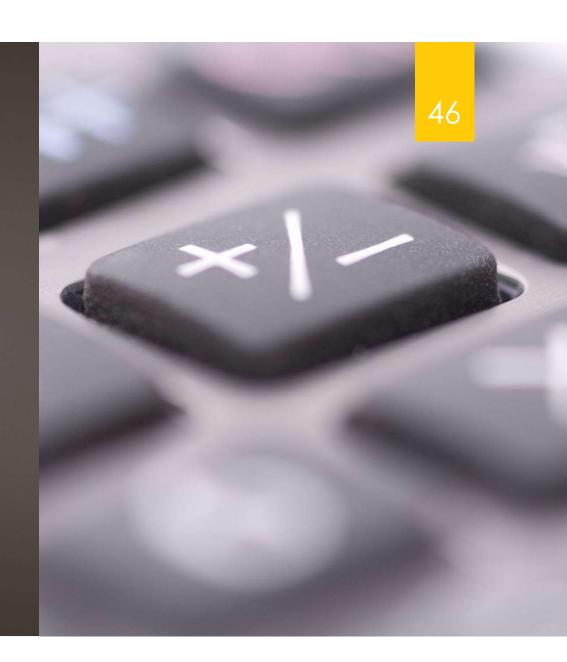


Taking Input in C++

cin object:

- Object of iostream class just like cout
- Accepts input from the standard device i.e keyboard
- Extraction operator (>>) is used along with cin, for reading inputs
 - Extracts data from cin



```
// C++ program to demonstrate the
// cin object
#include <iostream>
using namespace std;

// Driver Code
int main()
{
    string s;
    // Take input using cin
    cin >> s;

    // Print output
    cout << s;

    return 0;
}</pre>
```

Demo code for cin

Demo code#02 for cin

► Taking Multiple Inputs:

```
// C++ program to illustrate the take
// multiple input
#include <iostream>
using namespace std;

// Driver Code
int main()
{
    string name;
    int age;

    // Take multiple input using cin
    cin >> name >> age;

    // Print output
    cout << "Name : " << name << endl;
    cout << "Age : " << age << endl;
    return 0;
}</pre>
```

Displaying Output in C++

cout object:

- Object of iostream
- Display output to the standard device i.e monitor
- Uses Insertion operator << :</p>
 - ▶ Inserts the data into the standard device

More than one variable can be printed using the insertion operator(<<) with cout.

Output:

Name : Akshay

Age : 18

Manipulators in C++

- Manipulators are helping functions:
 - Modify the input/output stream
 - We don't change the value of a variable, we just change the format of display
 - #include<iomanip> header file must be included
 - Manipulators can be without arguments like endl
 - Manipulators can be with arguments like setbase(), which can take 16,8,10

Manipulators in C++

- You can explore many more manipulators on the following link:
 - https://www.geeksforgeeks.org/manipulator s-in-c-with-examples/?ref=lbp

Escape Sequences

Definition:

- Special Non-Printing characters
- Control the printing behavior of output stream objects like cout

Syntax:

- Escape Sequences consists of two characters
 - First one is a backslah \ (escape character)
 - Second one is coded character which actually controls the printing behavior

Places where you can insert an escape sequence



Beginning of a string



In the middle of a string

00

At the end of a string

Escape Sequence	Name	Description
\a	Alarm or Beep	It is used to generate a bell sound in the C program.
\b	Backspace	It is used to move the cursor one place backward.
\f	Form Feed	It is used to move the cursor to the start of the next logical page.
\n	New Line	It moves the cursor to the start of the next line.
\r	Carriage Return	It moves the cursor to the start of the current line.
\t	Horizontal Tab	It inserts some whitespace to the left of the cursor and moves the cursor accordingly.

Some commonly used escape sequences

\\	Backlash	Use to insert backslash character.
\'	Single Quote	It is used to display a single quotation mark.
\"	Double Quote	It is used to display double quotation marks.
\?	Question Mark	It is used to display a question mark.

Some commonly used escape sequences