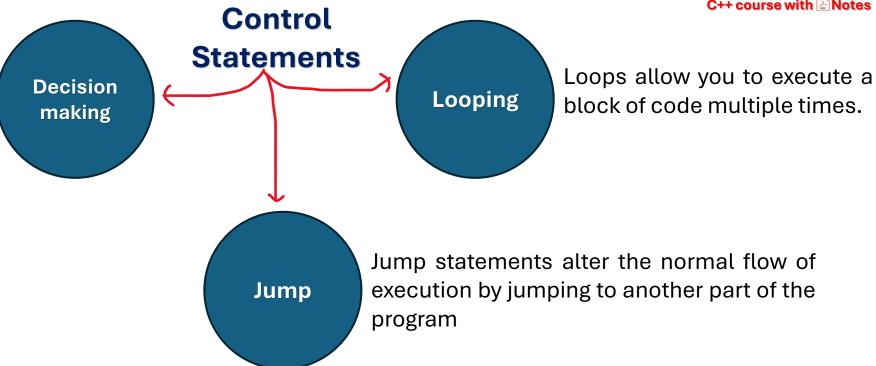
Control Statements in C++





Decision-making statements are used to execute a block of code based on a condition.



Summary

Туре	Description
Decision-making [if, if-else, switch]	Executes code based on condition
Looping [for, while, do-while]	Repeats code multiple times
Jump [break, continue, goto]	Alters normal flow of execution



statement

```
#include <iostream>
using namespace std;
int main() {
    int num = 10;
    if (num > 0) {
        cout << "Number is positive" << endl;</pre>
    return 0;
```



if-else statement

```
#include <iostream>
using namespace std;
int main() {
    int num = -5;
    if (num > 0) {
        cout << "Number is positive" << endl;</pre>
    } else {
        cout << "Number is negative" << endl;</pre>
    return 0;
```



else if statement

```
#include <iostream>
using namespace std;
int main() {
    int num = 0;
    if (num > 0) {
         cout << "Number is positive" << endl;</pre>
    } else if (num < 0) {</pre>
         cout << "Number is negative" << endl;</pre>
    } else {
        cout << "Number is zero" << endl;</pre>
    return 0;
```



switch statement

```
#include <iostream>
using namespace std;
int main() {
    int day = 3;
    switch (day) {
        case 1:
             cout << "Monday" << endl;</pre>
             break;
         case 2:
             cout << "Tuesday" << endl;</pre>
             break;
         case 3:
             cout << "Wednesday" << endl;</pre>
             break;
        default:
             cout << "Invalid day" << endl;</pre>
             break;
    return 0;
```





```
#include <iostream>
using namespace std;

int main() {
   for (int i = 1; i <= 7; i++) {
      cout << "Iteration " << i << endl;
   }
   return 0;
}</pre>
```



while loop

```
#include <iostream>
using namespace std;
int main() {
    int i = 1;
    while (i <= 5) {
        cout << "Iteration " << i << endl;</pre>
        i++;
    return 0;
```



do-while loop

```
#include <iostream>
using namespace std;
int main() {
    int i = 1;
    do {
         cout << "Iteration " << i << endl;</pre>
         i++;
    } while (i <= 5);</pre>
    return 0;
```



break statement

```
#include <iostream>
using namespace std;
int main() {
    for (int i = 1; i <= 5; i++) {
        if (i == 3) {
            break; // Exit the loop when i equals 3
        cout << "Iteration " << i << endl;</pre>
    return 0;
```



continue statement

```
#include <iostream>
using namespace std;
int main() {
    for (int i = 1; i <= 5; i++) {
        if (i == 3) {
            continue;
        cout << "Iteration " << i << endl;</pre>
    return 0;
```



goto statement

```
#include <iostream>
using namespace std;
int main() {
    int i = 1;
    start:
        if (i <= 5) {
            cout << "Iteration " << i << endl;</pre>
             i++;
            goto start;
    return 0;
```

Combined Control statement



```
#include <iostream>
using namespace std;
int main() {
    cout << "Enter 1 for positive check, 2 for loop: ";</pre>
    cin >> choice;
    if (choice == 1) {
        int num;
        cout << "Enter a number: ";</pre>
        cin >> num;
        if (num > 0) {
             cout << "Positive number" << endl;</pre>
        } else {
             cout << "Non-positive number" << endl;</pre>
    } else if (choice == 2) {
        for (int i = 1; i <= 5; i++) {
             cout << "Loop iteration: " << i << endl;</pre>
    } else {
        cout << "Invalid choice!" << endl;</pre>
    return 0;
```

Manks for watching

Please Subsurbe