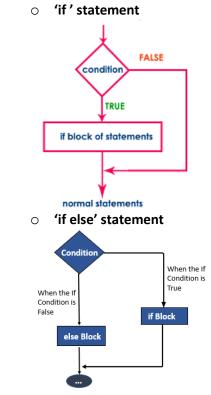
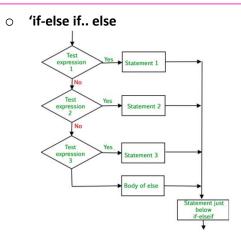
## Senior Secondary Course Learner's Guide: Computer Science (330)

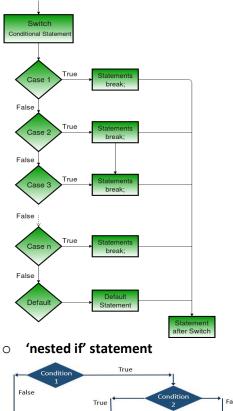
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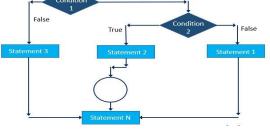
# **CONTROL STATEMENTS**

- **STATEMENT:** Statements are the instructions given to the computer to perform any kind of action. Action may be in the form of data movement, decision making etc.
- COMPOUND STATEMENT: A compound statement is a grouping of statements in which each individual statement ends with a semi-colon. The group of statements are called block. Compound statements are enclosed between the pair of curly braces "{ }".
- NULL STATEMENT: Writing only a semicolon indicates a null statement. This statement is generally used in for and while looping statements.
- **CONDITIONAL STATEMENT:** C++ provides the following statements for implementing the selection control structure:





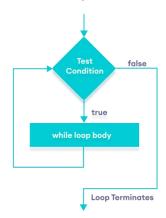




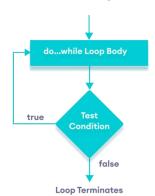
• 'switch' statement

 LOOP CONSTRUCT: It is also called a repetitive / iterative control structure. Sometimes we require a set of statements to be executed a number of times by changing the value of one or more variables each time to obtain a different result. This type of program execution is called looping. C++ provides the following constructs:

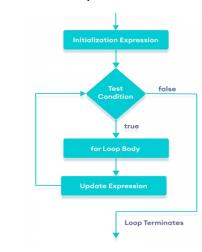
#### • while loop



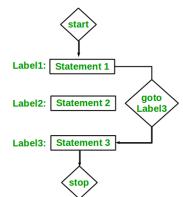
#### o do - while loop



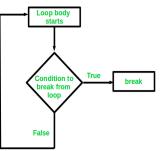
#### o for loop



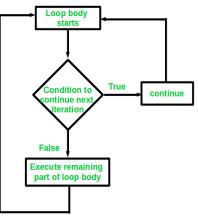
- JUMP STATEMENT: The jump statements unconditionally transfer program control to another statement elsewhere in program code. You can use the following statements in a program to (Jump statements) to transfer program control from one statement to another statement:
  - o Goto statement



Break statement



#### • Continue statement



• EXIT FUNCTION: The execution of a program can be stopped at any point with exit () and a status code can be informed to the calling program. The general format is exit (code); where code is an integer value. The code has a value 0 for correct execution

## **CHECK YOURSELF**

1. Decision Control statements in C++ can be implemented using

- A. If
- B. if-else
- C. Conditional Operator
- D. All of the above
- 2. What will be the output of the following code:

#include<iostream.h>
using namespace std;
int main() {
 if(0) {
 cout<<"Hello";
 }
 Else
 {
 Cout<<"Good Bye";
 }
 Return 0;</pre>

}

- A. Hello
- B. Good Bye
- C. HelloGood bye
- D. Compilation Error
- 3. If you have to make decision based on multiple choices, which of the following is best suited?
  - A. If
  - B. if-else
  - C. if-else-if
  - D. All of the above
- 4. What is the way to suddenly come out of or quit any loop in C++?
  - A. continue; statement

## B. break; statement

- C. leave; statement
- D. quit; statement
- 5. Which of the following is an entrycontrolled loop?
  - A. For loop
  - B. while loop
  - C. do-while loop
  - D. both B & C

#### **STRETCH YOURSELF**

- 1. What is the difference between if-else and if-else-if statement?
- 2. What is the use of Exit function?
- Write a program in C++ to demonstrate difference between while and do-while loop?
- 4. Explain the use of for loop using an example?

#### **ANSWERS**

#### Answers to Check Yourself:

- 1. D
- 2. B
- 3. C
- 4. B
- 5. D