

Shaping "skills" for "scaling" higher...!!!

WELCOME, PROGRAMMERS



01.

What is Control Structure?



WHAT IS

CONTROL STRUCTURE ?





CONTROL STRUCTURE



A control structure is a **block of code** that **manages the flow of execution in a program**.

Control structures dictate the order in which statements are executed based on certain conditions.



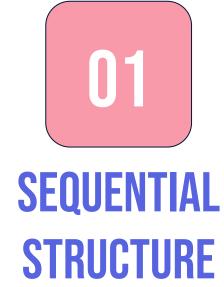
TYPES OF CONTROL STRUCTURE



Types of Control Structure

- 1. **Sequential Structure:** The default structure where statements are executed one after the other in sequence.
- Selection Structure (Conditional Statements): Allows the program to make decisions and execute different blocks of code based on specified conditions.
- Repetition Structure (Loops): Allows the execution of a block of code repeatedly as long as a specified condition is true.







SEQUENTIAL STRUCTURE



The default structure where **statements are executed one after the other in sequence**.

```
main()
{
      // Statement 1
      // Statement 2
      // Statement 3
}
```





SELECTION STRUCTURE (CONDITIONAL STATEMENTS)

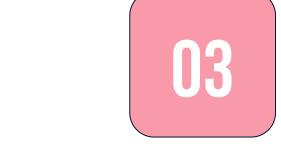


SELECTION STRUCTURE (CONDITIONAL STATEMENTS) • • •

Allows the program to **make decisions** and **execute different blocks of code based on specified conditions**.

if statement if else statement ladder statement nested statements ternary statement switch case





REPETITION STRUCTURE (LOOPS)



REPETITION STRUCTURE (LOOPS)



Allows the **execution of a block of code repeatedly** as long as a specified **condition is true**.

- 1. Entry Control Loop
 - while loop
 - for loop
- 2. Exit Control Loop
 - do while loop



Let's see **Conditional Statements** in detail...



IF STATEMENT



```
if (condition)
{
    // Code to be executed if the condition is true
}
```



IF ELSE STATEMENT



```
if (condition)
  // Code to be executed if the condition is true
else
  // Code to be executed if the condition is false
```



LADDER STATEMENT



```
if (condition 1)
  // Code to be executed if condition 1 is true
else if (condition 2)
  // Code to be executed if condition 2 is true
else if (condition 3)
  // Code to be executed if condition 3 is true
else
  // Code to be executed if none of the conditions is true
```





Let's start now...





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