

Day-7

we are going to see about loops

there are 2 types of loop in c++

1. for loop
2. while loop

1)for loop

what is for loop in c++ ?

A for loop is a repetition control structure that allows you to efficiently write a loop that needs to execute a specific number of times.

what does `for(i;i < 10 ; i++)` means in the above code ?

`i` is the variable which we need to loop

`i < 10` is the condition untill we need to run the loop. in our case we need to run the loop untill i is lesser than 10 (i.e) 9.'

`i=i+1` is the condition to add 1 to i for the each loop in for loop.

2)while loop

what is endl ?

`endl` is the alternate to `\n` ,which is used to end line and execute next code in the next line

what does `while(i < 10)` means ?

`i < 10` is the condition , untill the condition the loop runs , so it is called while loop

Recap

1. **iostream** is used to perform input and output operations
2. **namespace** is primarily used in programming languages where the same name may be used for different objects. It is created to group together those names that might be repeated elsewhere within the same or interlinked programs, objects and elements.
3. **int main()** is a special function in all C++ programs; it is the function called when the program is run. The execution of all C++ programs begins with the main function, regardless of where the function is actually located within the code
4. **//(command)**nd is a line which is not executed by the compiler , (//) we use commands to remember what we written in the line or any special keywords
5. **/* */** is used command multiple lines in c++
6. **(empty variable)** if we declared a variable without assigning the value for it , the the output is **0(if it is int)**
7. arithmetic operator **+** is also used to add 2 strings together
8. if the if else come inside the if else then the if else is said to be a **nested if else**