C# Basic- Looping Statement

By Dhananjay Masal– CODEMIND Technology

Contact us +91 9890217463

Loops in C#:

- Loops are also called repeating statements or iterative statements.
- also called Iteration Statements
- Looping in programming languages is a feature that facilitates the execution of a set of instructions repeatedly while some condition evaluates to true.
- The process of repeatedly executing a statement or group of statements until the condition is satisfied is called looping

Loops

- Counter Loops are the loops, which execute a specific set of instructions a certain number of times.
- Conditional Loops are the loops, which execute a specific task until the condition is true.

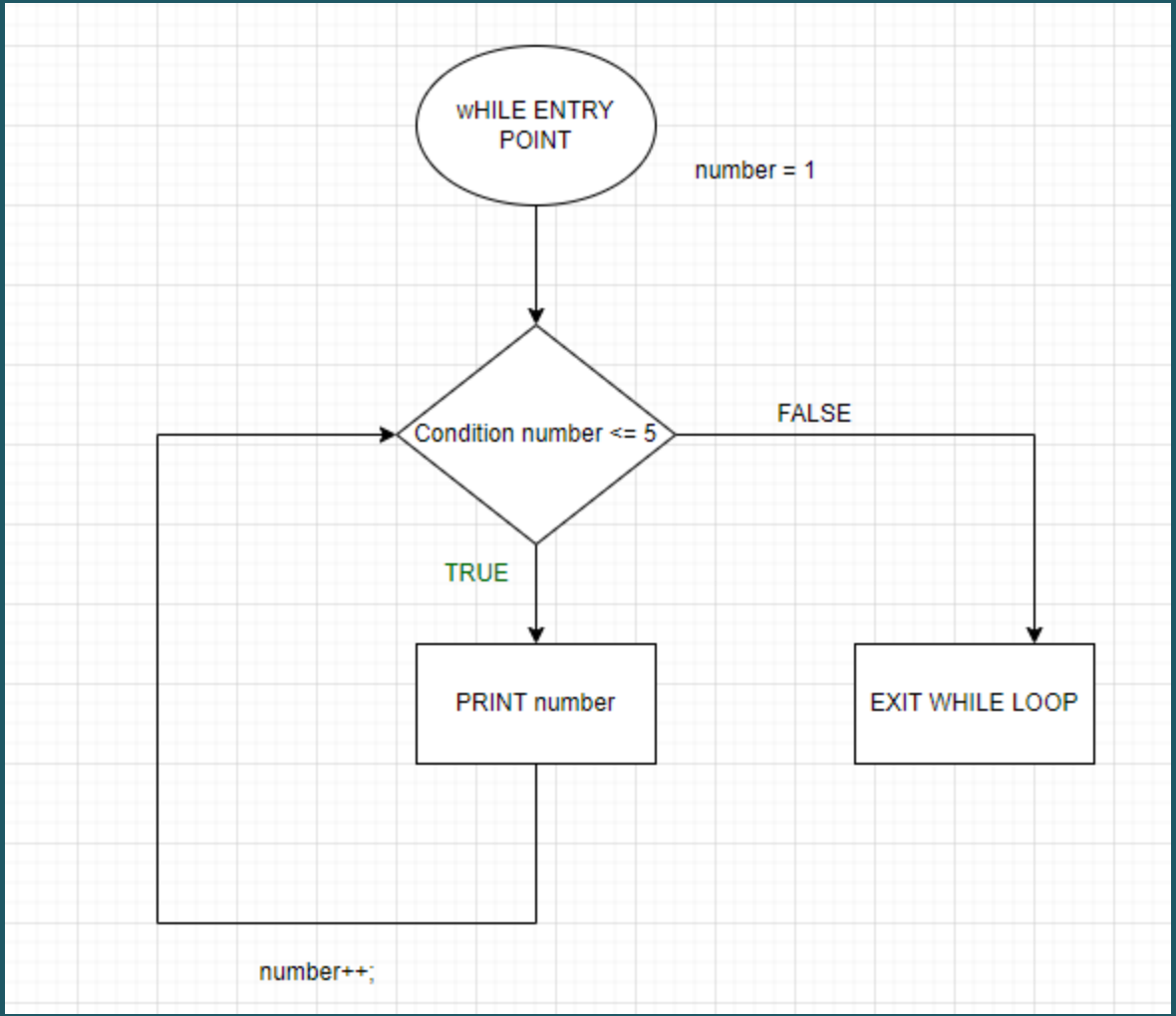
Why do we need looping?

- The basic purpose of the loop is code repetition. So, whenever the repetitions are required, then in place of writing the statements, again and again, we need to go for looping.
- Types of Loops in C#
- For loop
- For Each Loop
- While loop
- Do while loop

While Loop in C# with Examples

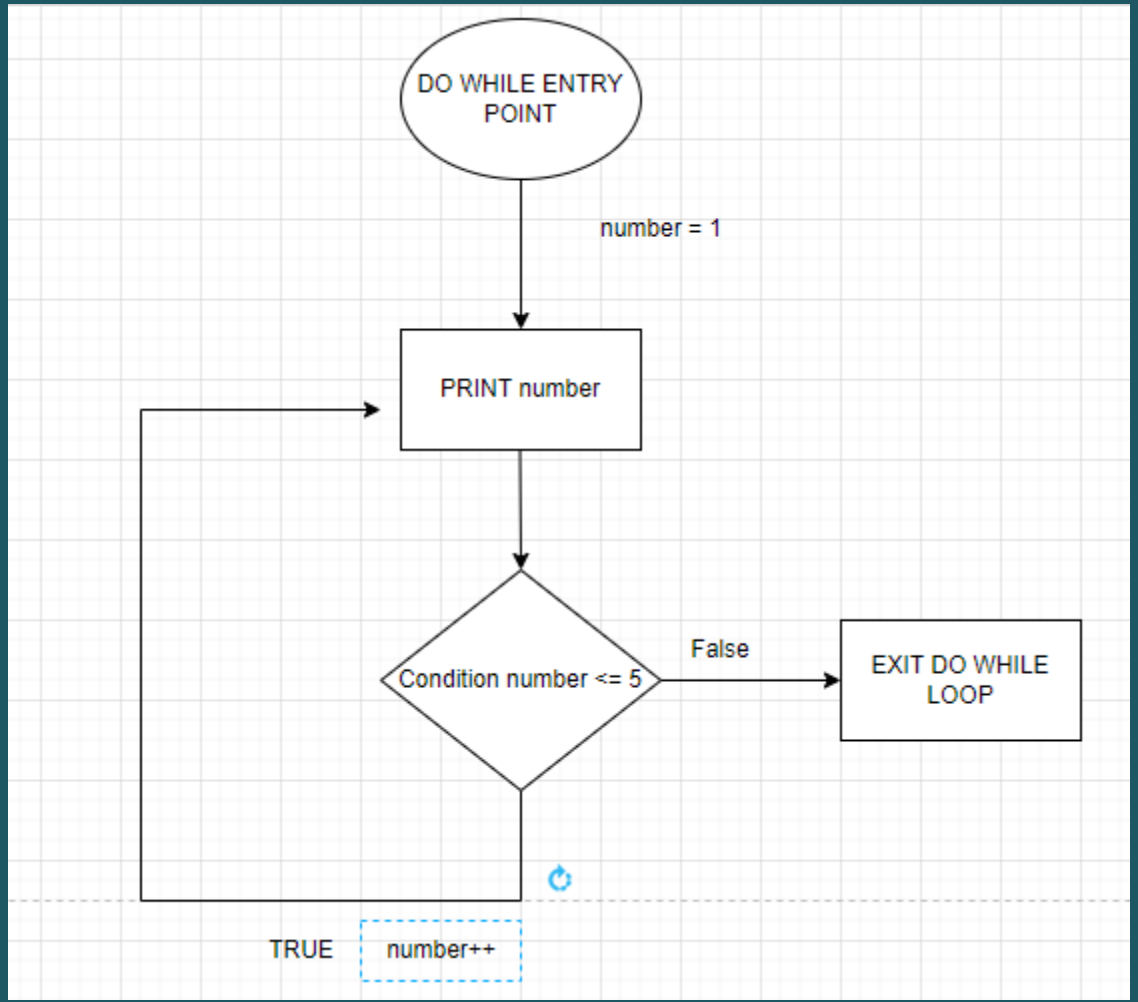
A while loop is used for executing a statement repeatedly until a given condition returns false

```
while(condition) {
        statements;
}
```


wHILE ENTRY POINT
number = 1
Condition number <= 5
FALSE
TRUE
PRINT number
EXIT WHILE LOOP
number++;

Do While Loop in C# with Examples

- do-while loop is a post-tested loop or exit-controlled loop i.e. first it will execute the loop body and then it will be going to test the condition. That means we need to use the do-while loop where we need to execute the loop body at least once.
- do {
- statements;
- }while(condition);


DO WHILE ENTRY POINT
number = 1
PRINT number
Condition number <= 5
False
EXIT DO WHILE LOOP
TRUE
number++

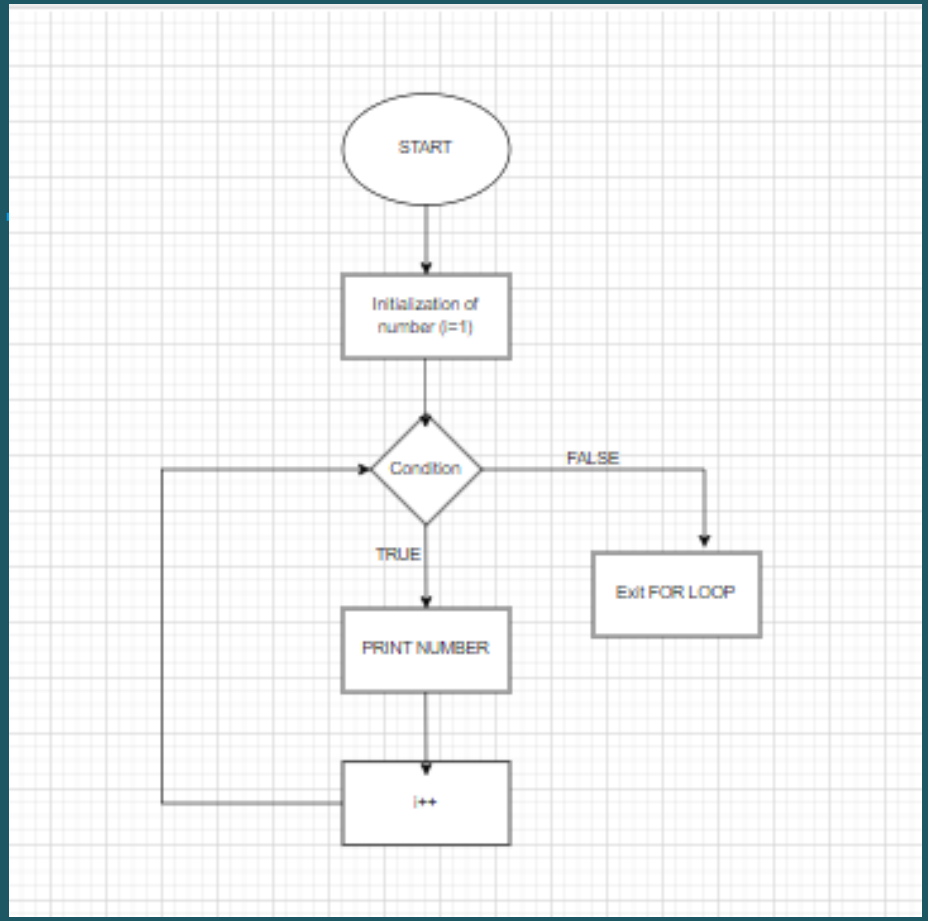
For Loop in C# with Examples

If we know the number of times, we want to execute some set of statements or instructions, then we should use for loop. For loop is known as a Counter loop.

```
for(initialization; condition; increment/decrement){

        //statements

}
```


START
Initialization of number (i=1)
Condition
FALSE
TRUE
Exit FOR LOOP
PRINT NUMBER
i++

Thank You

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