

WHILE LOOP

VS

DO-WHILE LOOP



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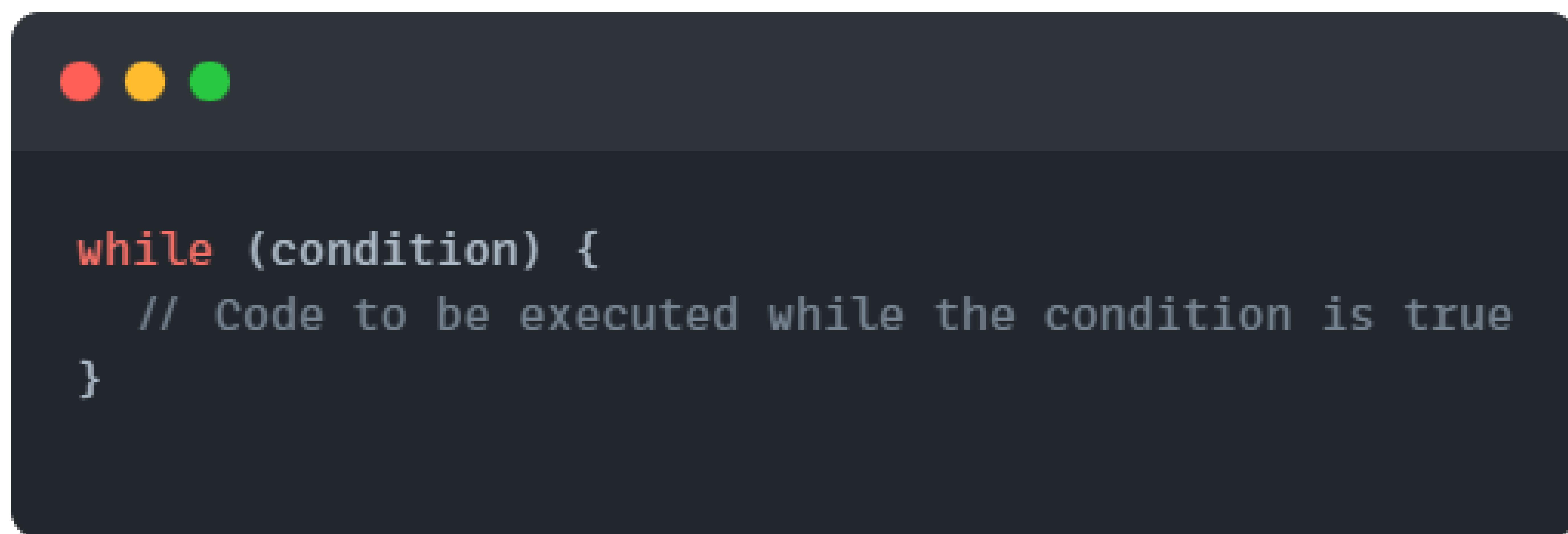
Both while and do-while loops are used in programming to repeat a block of code until a certain condition is met. The main difference between them is that the while loop tests the condition before the loop is executed, while the do-while loop tests the condition after the loop is executed.



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Here's an example of a while loop:



The code block contains three small colored dots (red, yellow, green) at the top left. Below them is the following pseudocode:

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

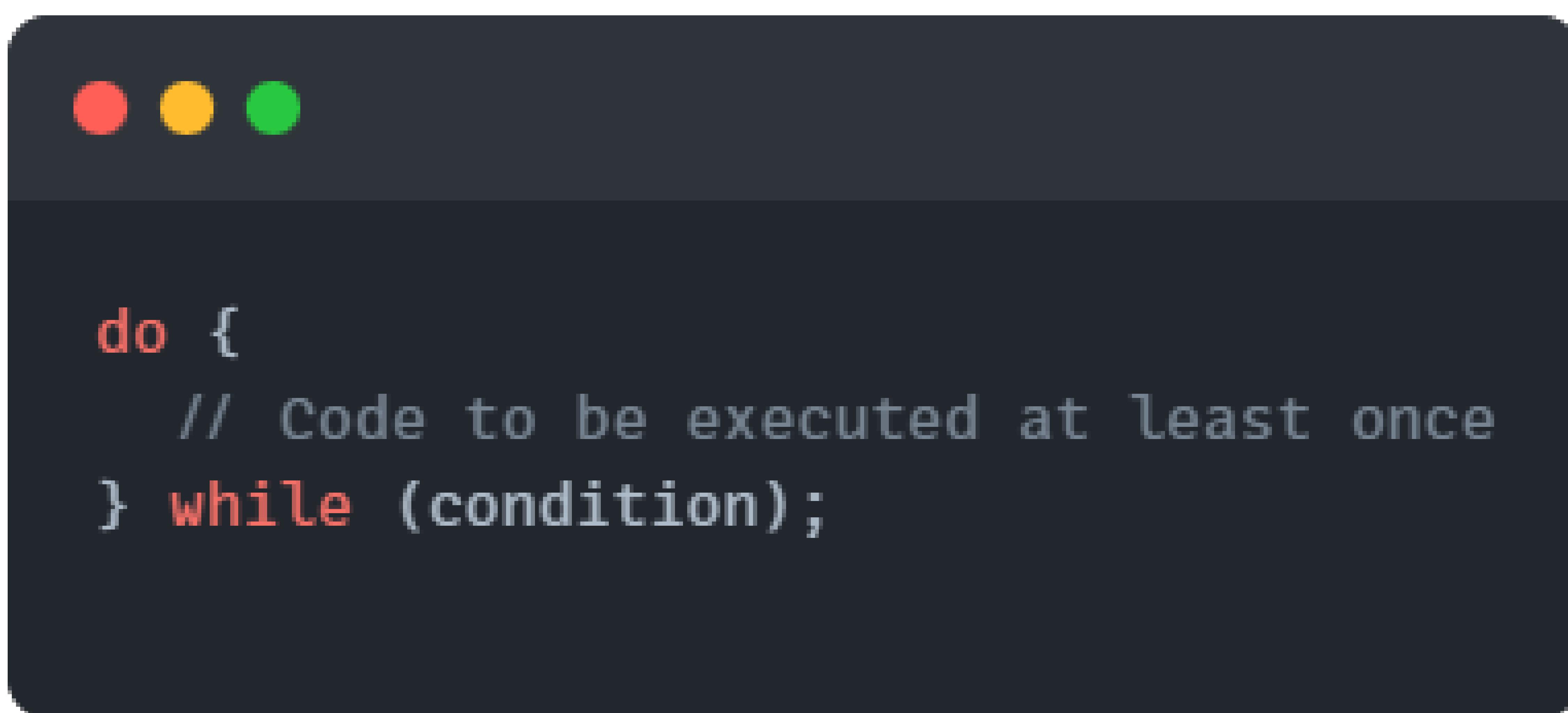
In this loop, the code inside the block is executed only if the condition is true. If the condition is false, the loop is not executed at all.



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Here's an example of a do-while loop:

A screenshot of a dark-themed terminal window. At the top, there are three small colored circles (red, yellow, green) followed by a horizontal bar. Below this, the code for a do-while loop is displayed in white text:

```
do {  
    // Code to be executed at least once  
} while (condition);
```

In this loop, the code inside the block is executed at least once, regardless of whether the condition is true or false. After the block is executed, the condition is checked. If it is true, the loop will continue to execute; otherwise, the loop will terminate.



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In summary, the while loop is used when you want to execute the code inside the block only if the condition is true, while the do-while loop is used when you want to execute the code inside the block at least once, regardless of the condition, and then test the condition afterwards.



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