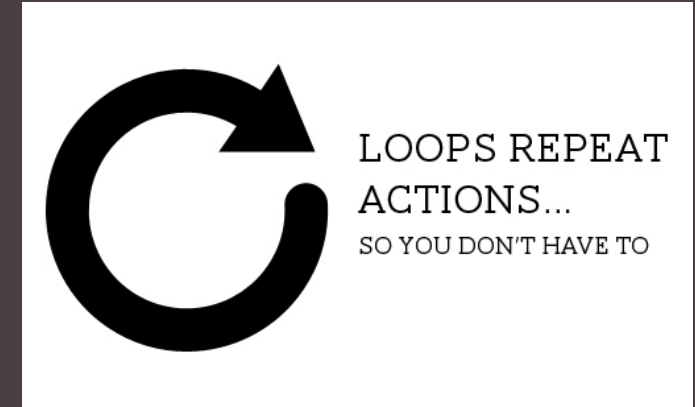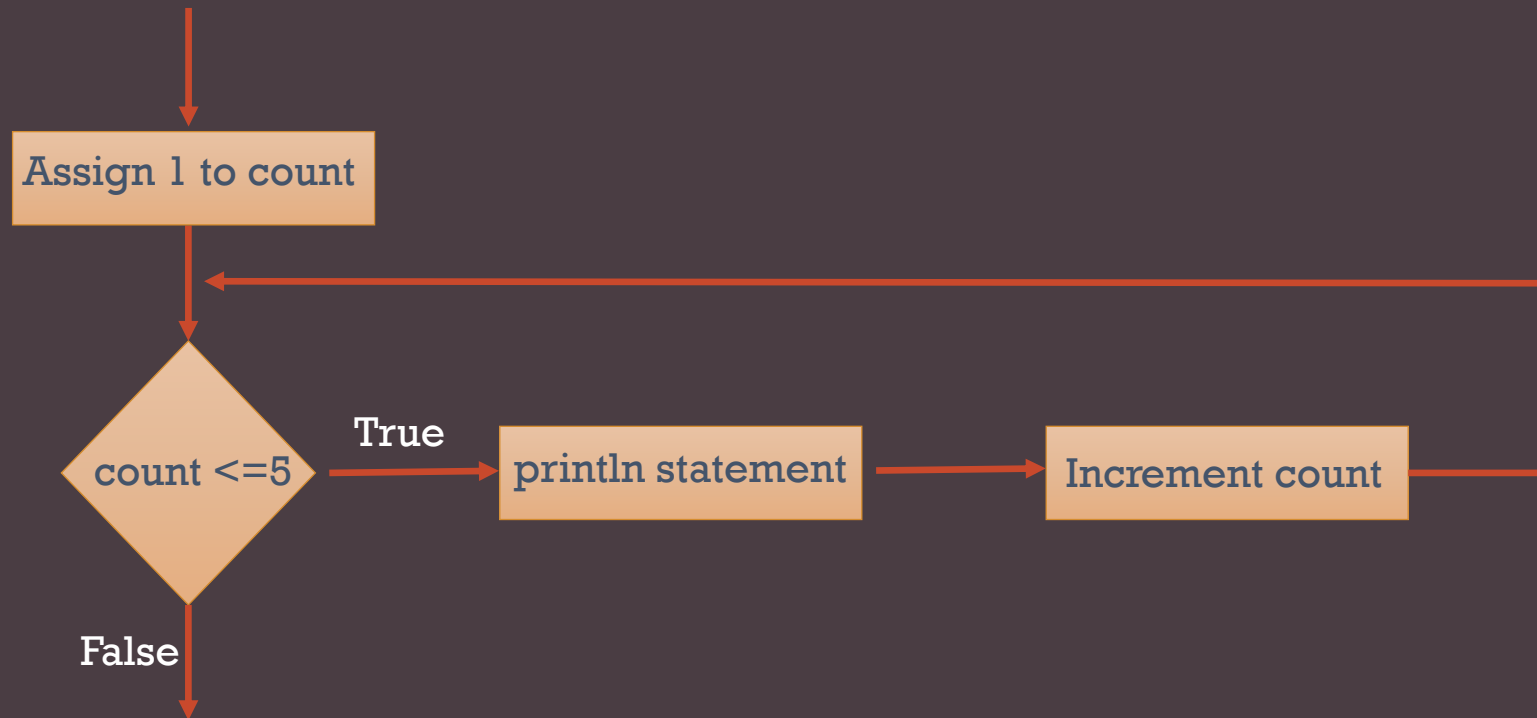For Loop

LOOPS

Loops check a condition. If it returns true, a code block will run. Then the condition will be checked again and if it is still returns true, the code block will run again. It repeats until the condition return false.

➤ for

➤ while
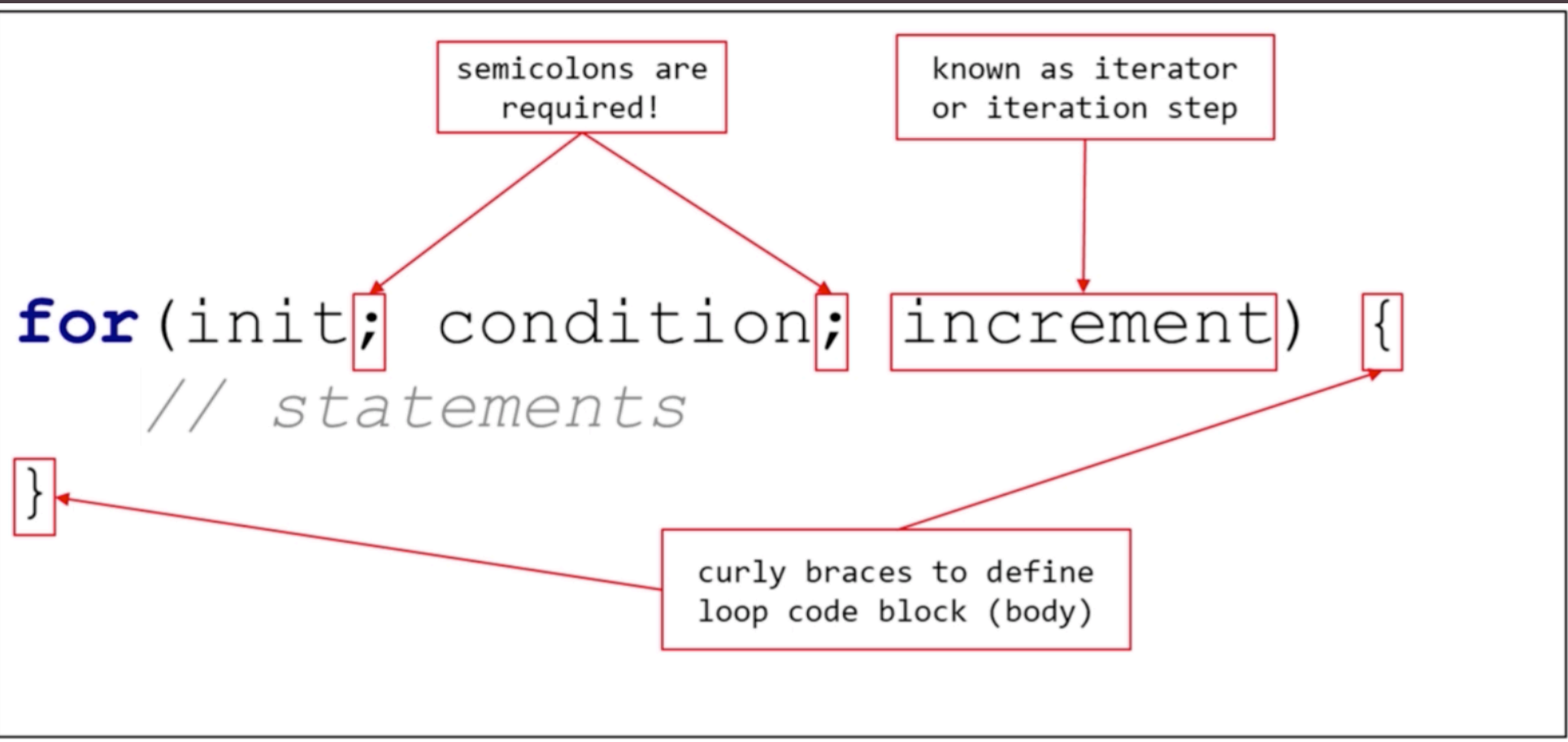
➤ do while

LOOPS REPEAT ACTIONS...
SO YOU DON'T HAVE TO

For Loop

If you need to run code a specific number of times, use a for loop. In a for loop, the condition is usually a counter which is used to tell how many times the loop should run.

Syntax

```
for(int count=1;count<5;count++){
    System.out.println("Hello");
}
```

Initialization

`int count=1`

The initialization expression initializes the loop; It is executed once, as the loop begins
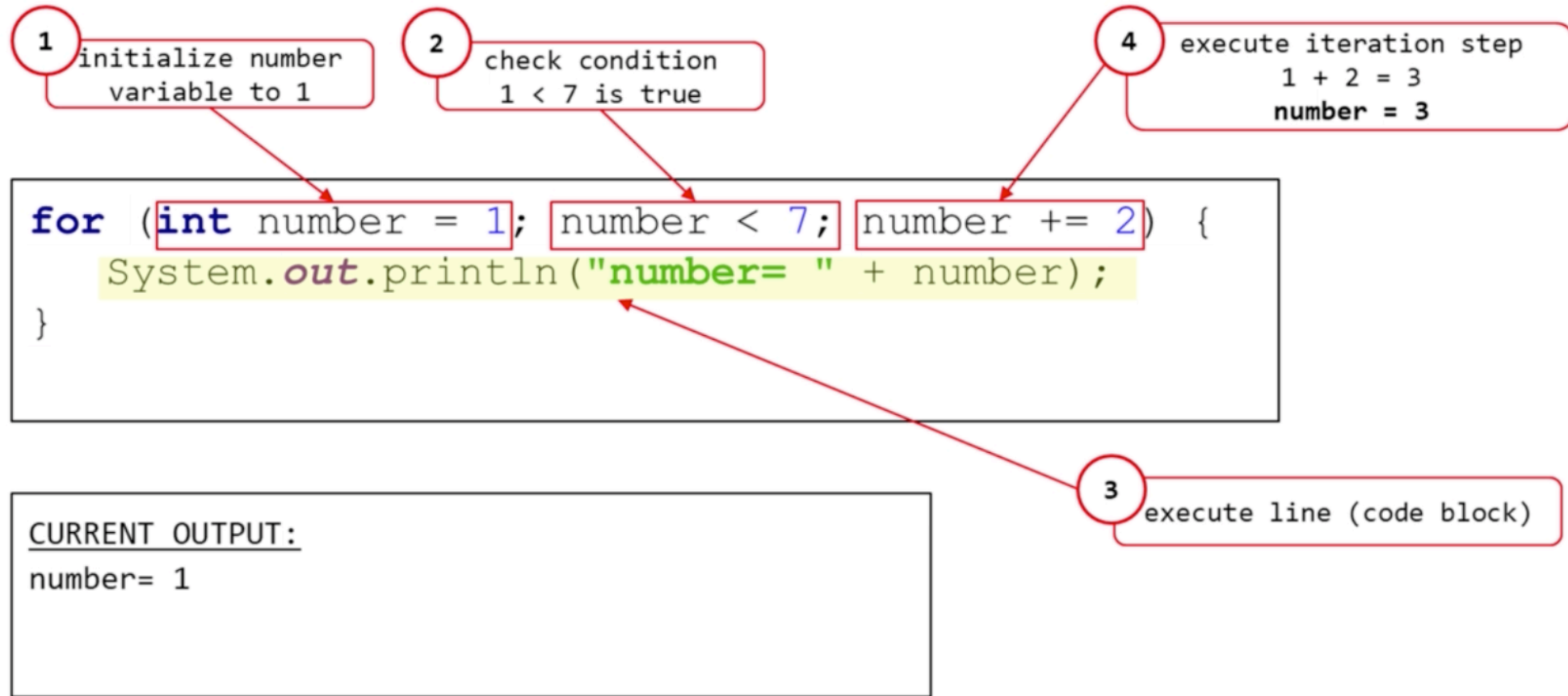
Condition/Termination

`count<5`

When the termination expression evaluates to false, the loop terminates

Increment/Update

`count++`

The increment expression is invoked after each iteration through the loop/ it is also possible to decrement

Cybertek

For Loop

For Loop


```java
for (int number = 1; number < 7; number += 2) {
    System.out.println("number= " + number);
}
```

1 check condition
7 < 7 is **false**

number = 7

2 jump here

CURRENT OUTPUT:
number= 1
number= 3
number= 5

Task

Write a Java Program to print the following table.

Number	Number Squared
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81
10	100

Cybertek

Task

1. Write a program that displays each even/odd number in popup between 1 and 32

2. Write a program that the user to declare a positive integer. It should then print the multiplication table of that number.