

Working with Loop Constructs

- A looping statement enables you to execute the same statements for a certain number of times.
- You can enclose the statements within the loop construct and the loop construct executes the statements till the specified condition is met.
- Java supports the following loop constructs:
 - The `for` loop
 - The `while` loop
 - The `do...while` loop

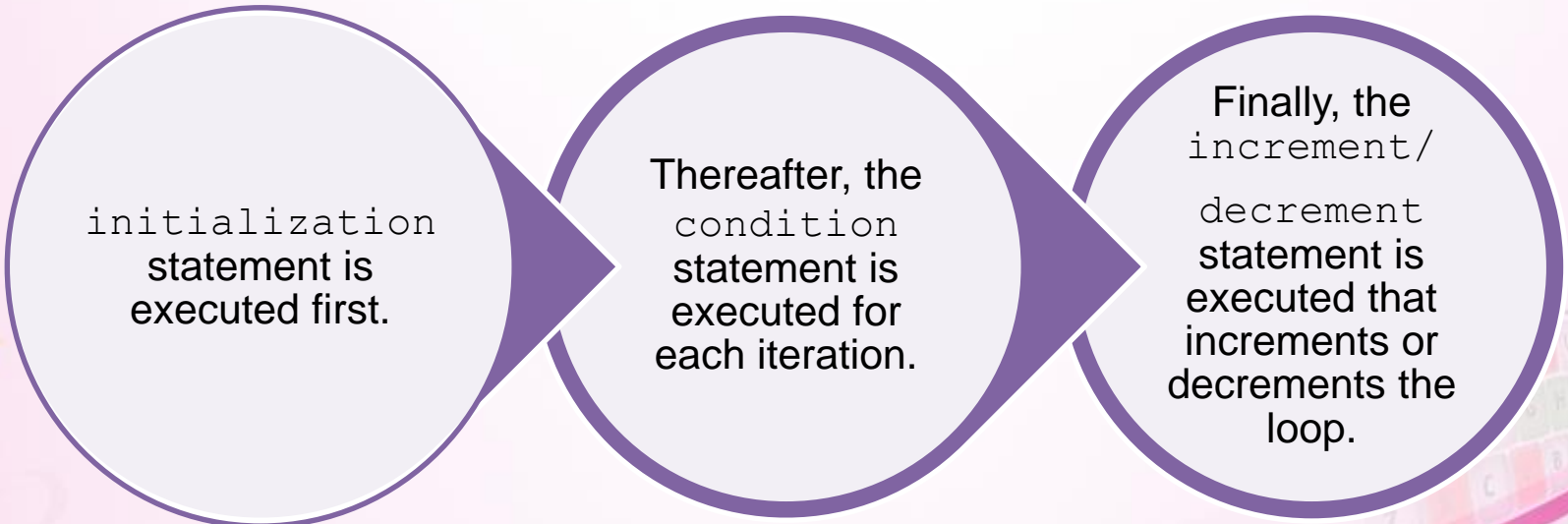


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Using the for Construct

- The syntax for the `for` loop construct is:

```
for(initialization; condition; increment/decrement)
{
    //statement(s)
}
```



initialization
statement is
executed first.

Thereafter, the
condition
statement is
executed for
each iteration.

Finally, the
increment/
decrement
statement is
executed that
increments or
decrements the
loop.

Using the for Construct (Contd.)

- You can create an infinite loop by keeping all the three statements blank, as shown in the following code snippet:

```
for ( ; ; )  
{  
    //statement(s)  
}
```

- Java provides:

- The `break` statement that stops the execution of the remaining statements within the body of the loop.
- The `continue` statement that skips all the statements following the `continue` statement and moves the control back to the loop statement.



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Using the for Construct (Contd.)

- The following code snippet depicts the use of the `break` statement within the `for` loop:

```
for(count=0;count<10;count++)  
{  
    if(count==7)  
    {  
        break;  
    }  
    System.out.println(count);  
}
```



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Using the for Construct (Contd.)

- The following code snippet depicts the use of the `continue` statement within the `for` loop:

```
for(count=0;count<10;count++)  
{  
    if(count==3)  
    {  
        continue;  
    }  
    System.out.println(count);  
}
```



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