

# while statement in Java

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# While Statement in Java

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while

do while

# Java While Loop

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The while loop loops through a block of code as long as a specified condition is true:

```
while (condition) {  
    // code block to be executed  
}
```

# Java While Loop

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```
int i = 0;
while (i < 5) {
    System.out.println(i);
    i++;
}
```

# Java While Loop

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The **do while** loop is a variant of the while loop.

This loop will execute the code block once, before checking if the condition is true, then it will repeat the loop as long as the condition is true.

```
do {  
    // code block to be executed  
}  
while (condition);
```

# Java While Loop

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```
int i = 0;  
do {  
    System.out.println(i);  
    i++;  
}  
while (i < 5);
```

# Java Exceptions

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## Java try and catch

The **try** statement allows you to define a block of code to be tested for errors while it is being executed.

The **catch** statement allows you to define a block of code to be executed, if an error occurs in the try block.

The **try** and **catch** keywords come in pairs:

The **finally** statement lets you execute code, after try...catch, regardless of the result:

# Java Exceptions

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```
public class Main {  
    public static void main(String[] args) {  
        try {  
            String number = 1;  
            System.out.println(number);  
        } catch (Exception e) {  
            System.out.println("Something went wrong.");  
        } finally {  
            System.out.println("The 'try catch' is finished.");  
        }  
    }  
}
```



# Problem

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Develop a Java login application prompting the user to input a username and password. The program will authenticate this data against default credentials.

Continuously prompt the user until the correct username and password combination is entered, ensuring the application runs until successful authentication.