the *while* statement

```
while(condition){
    statement(s);
}
```

- The conditional test is key to the loop

- In Java, a conditional test is an expression that results in a boolean value (either true or false)

- As long as some condition is true, you do everything inside the loop block.

- The loop block is bounded by a pair of curly braces, so whatever you want to repeat needs to be inside that block

the **while** statement

1 Initialisation

Before the while statement, we initialise the variable(s) in the condition

2 Condition

False

True

3 Loop body: statement(s)

The variable(s) in the condition must be modified in the body of the while. If the condition always holds true, we have an infinite loop

The program continues

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