# Object Oriented Programming

# Prof. Fred Stiebler

# ICE-3

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SS1: Initial screen / what you see as soon the app is open.

A screenshot of a computer

AI-generated content may be incorrect.

SS2: Entered something non-numeric and the error message.

A computer screen shot of a black screen

AI-generated content may be incorrect.

SS3: Entered the number lower than valid range and the error message

A screenshot of a computer

AI-generated content may be incorrect.

SS4: Entered a valid whole number (10) and the output screen with restart prompt

A screenshot of a computer

AI-generated content may be incorrect.

SS5: Entered a valid number with decimal places (0.6) and shown the output message.

A screenshot of a computer

AI-generated content may be incorrect.

❓ QUESTION 1 - What is the difference between a constant and a variable?  
Variables can change during execution, while constants remain fixed once assigned.

❓ QUESTION 2 - Why is it important to use constants in your code?  
Constants improve readability, prevent unintended changes, and make updates easier.

❓ QUESTION 3 - In Java, what keyword (command) is needed to declare a constant?  
The final keyword to declare a constant in Java.

❓ QUESTION 4 - What is the naming case convention difference between naming variables and naming constants?  
Variables use camelCase (e.g., myVariable), while constants are UPPER\_CASE\_WITH\_UNDERSCORES (e.g., MAX\_VALUE).

❓ QUESTION 5 - In Java, what happens if you try to modify the value stored in a constant?  
Trying to modify a constant result in a compilation error because its value is immutable.

❓ QUESTION 6 - What is the difference between a while loop and a do while loop?  
A while loop checks the condition first and may not run, while a do-while loop runs **at least once** before checking the condition.