CS Bridge Module 4 Anha Types and Expressions Part 4: "bool"
The "bool" Lanta type

- "bool" short for Bookean

Kind of Data: Truth Value (True or False)

Inner Representation: Each "bod" data uses 1 byte (8 bits)
- False is represented by a Byte of (5)
- True is any Non-Zero Value

CH Literals: tome, False

Bukan Operators: !, Lt., 11

Not operator: Matches semantics of english, negates its operand Example: "bool" 61 = true; "bool" 62 = ! 61 (Not True = talse)

And Operator: Binary Operator (Has 2 Operands)
- Alts the same way as it does in english if p = true "and q = true Hen statement T Example: 61 = true, 62 = false, 63 = true for false (63 is false)

On Operator: Binny Operator

- Acts the same way as in English p=true or q= False than startment T

- Acts as inclusive-or; only one needs to be true for it to be true

Example: 61= False; 62= 61 11!61 (62= False or true, which is true)

Boolen Expressions

Atomic Boolean Expressions:
- The "bool" literals: true and False Comparison Arithmetic Operators: <, >, <=, >= == !=

Compound Boolean Expressions:
- Simple boolean expressions combined with boolean operators (:, ba, 11)

In Cu we cannot chain arithmetic comparison operators