- Computer programs are executed in **binaries**: true and false, yes and no, ones and zeroes, on and off. Is this program running or not? Is this number equal to that number?  
- **Boolean logic** is based on evaluating true or false values.

- In C#, Boolean data types are represented using *bool* and can only have two values: true or falsA close up of a logo

Description automatically generated

**Equality Operators:**

- Used to check if two values are equal to eachother, == true, != false  
- Can be used on variables, strings, and Boolean values

A screenshot of a computer

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**Comparison Operators:**

- Used to evaluate 2 values and the relationship between them  
- Less Than <, Greater Than >, Less Than or Equal <=, Greater Than or Equal >=

A computer screen with text

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**Logical/Boolean Operators:**

- && (true only if *both* expressions are true)  
- || (true if at least one expression is true)  
- ! (evaluates to the opposite expression it is applied to – true -> false and false -> true)

A screenshot of a computer

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**Truth Tables:**

- Truth Tables allow us to quickly see what the outcome is for different relationships between Boolean values and

A screenshot of a game

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