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CS-2202

1. Differentiate the conditional structures in C# :
- **if | else if | else :** Executes code blocks based on whether a condition is true.
- **switch :** Selects one block of code to execute from multiple options based on a value.

2. What are the different relational operators, and how are they used in C#?
- == : Equal to
- != : Not equal to
- \> : Greater than
- < : Less than
- \>= : Greater than or equal to
- <= : Less than or equal to

They are used to compare values and return a `true` or `false` result. (*Example : if (a > b) { … }*)

3. Discuss the different Boolean operators :
- && (AND): True if both conditions are true
- || (OR): True if at least one condition is true
- ! (NOT): Reverses the condition's value

These help combine or modify conditions in decision-making.

4. What are the three iterative structures in C#? When are they useful?**
- *for* loop: Best when the number of iterations is known.
- *while* loop: Used when the condition is checked before the loop, and it's not clear how many times it'll run.
- *do-while* loop: Similar to while loop, but the loop runs at least once before checking the condition.