1. Difference between else-if ladder and switch control constructs?

Ans.

Else if	Switch
Evaluates multiple conditions in sequential order	Evaluates a single expression (variable) for multiple cases
Relies on Boolean expressions for condition checks	Uses integral types or enumerated types for cases
Can include complex conditions with logical operators	Supports only equality comparisons for cases
Requires evaluating conditions until a match is found	Jumps directly to the matching case (if available)
Suitable for complex conditions and non-constant values	Best suited for simple value-based decisions