* **What are conditional statements in C++? Explain the if-else and switch statements**

**WHAT IS CONDITIONAL STATEMENT: - conditional statements are used to make decisions in your program based on whether a condition is true or false. They allow the program to take different actions depending on different inputs or conditions.**

1. **if and if-else Statements**

* **if Statement It executes a block of code only if the condition is true.**

**if (condition) {**

**// Code to execute if condition is true**

**}**

* **if-else Statement It provides an alternative block of code if the condition is false.**

**if (condition) {**

**// Executes if condition is true**

**} else {**

**// Executes if condition is false**

**}**

* **else if used when you need to check multiple conditions.**

**if (condition1)**

**// Executes if condition1 is true**

**ease if (condition2)**

**// Executes if condition2 is true**

**} else {**

**// Executes if none of the conditions are true**

**}**

1. **Switch Statement**

**The switch statement is used to select one of many code blocks to execute based on the value of a variable.**

**switch (expression)**

**case value1:**

**// Code to execute if expression == value1**

**break.**

**case value2:**

**// Code to execute if expression == value2**

**break;**

**...**

**default:**

**// Code to execute if none of the above match**

**}**

* **break: Exits the switch block.**
* **default: Optional. Runs if no case matches.**