**Purpose of async and await in C#:**

* async marks a method as asynchronous.
* await pauses the method execution until a task completes — **without blocking** the thread.

**🔹 Why use them?**

* To keep the application **responsive**.
* To perform **long-running tasks** (like API calls, file I/O, or database queries) efficiently.

**🔹 How they work:**

| **Keyword** | **Description** |
| --- | --- |
| async | Declares a method that can contain asynchronous code |
| await | Waits for an asynchronous operation to finish |