

■ ***Caching in Flutter***

■ ***What is Caching?***

- Caching means saving data temporarily so it can be quickly reused later.
- It reduces loading time and improves app performance.

■ ***Why use Caching?***

- Faster data access.
- Works offline when internet is not available.
- Reduces repeated network calls.

■ ***Types of Caching in Flutter:***

1. Memory Cache -> Store data in variables during app runtime.
2. Local Storage Cache -> Save data in device storage using packages like:
 - shared_preferences (key-value pairs).
 - hive (NoSQL database).
 - sqflite (SQL database).
3. Image Cache -> Flutter automatically caches images with Image.network.
4. HTTP Cache -> Use http caching or dio_http_cache package.

■ ***Example with shared_preferences:***

Save data -> `prefs.setString('username', 'Amr');`

Get data -> `prefs.getString('username');`

■ ***Summary:***

- Caching helps improve speed and offline support.
- Choose method depending on your need (shared_preferences, hive, sqflite, dio).