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|  | Library | Framework | Package | Plugin |
| ****Definition**** | A collection of pre-written code (functions, classes, or modules) that developers can use to perform specific tasks without reinventing the wheel. | A structured foundation that provides a skeleton for building applications. It dictates the architecture and flow of the application. | A collection of related code files (modules, libraries, or resources) bundled together for distribution and reuse. | A software component that adds specific features or functionality to an existing application or framework. |
| ****Purpose**** | Provides reusable functionality to solve specific problems (e.g., math operations, data manipulation, etc.). | Offers a complete structure for developing applications, often including libraries, tools, and conventions. | Simplifies code sharing and dependency management. Often used to distribute libraries or tools. | Extends the capabilities of a host application without modifying its core code. |
| ****Usage**** | Called by the developer | Developer builds within it | Installed via package managers | Integrated into a host application |
| ****Examples**** | **JavaScript**: jQuery, Lodash  **Python**: NumPy, Pandas, Seaborn | **Web Development**: React (JavaScript), Angular (JavaScript), Django (Python)  **Mobile Development**: Flutter (Dart), React Native (JavaScript) | npm packages    pip packages | * **WordPress**: Plugins for SEO, contact forms, etc. * **Web Browsers**: Extensions like AdBlock, Grammarly. * **IDEs**: Plugins for linting, debugging, or version control. |

**TASK 1**