TASK 1

	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.