

WAP Assignment

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Q1. Illustrate the need of Yarn Package.

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Yarn is a fast, secure and reliable package manager for Javascript. It helps developers manage project dependencies - libraries and tools their project need to work.

Need of Yarn -

1. Dependency Management:

Project without Yarn/npm: imagine a project that depends on Library A, which depends on library B v1.2, but another part of the project need library B v2.0. Without a good package manager, managing this mess is nearly impossible.

Yarn helps by -

Resolving these versions smartly.

Locking them down in a file (yarn.lock) so your project is reproducible.

2. Speed :-

NPM (older version) was slow. Yarn introduced parallel installation, making it much faster.

3. Security and consistency -

Yarn uses checksums to verify every package before it runs.

The yarn.lock file ensures everyone gets the same setup, even across teams.

4. Advanced features -

Workspaces: Manage multiple packages in a monorepo.

Offline Mode: Already downloaded packages can be reused without internet.

Plug'n'Play: No more node_modules folder mess.

Q2] Implement small application which will make use of yarn package (i/p, o/p)

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Building a small Node.js application using yarn.

This app will -

Take user input (a string)

Reverse it

Output the reversed string.

1. Initializing the project with yarn:

yarn init -y

2. Add readline-sync package

yarn add readline-sync

Q3) Illustrate the need of code of ethics.

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A code of ethics is essential because it guides individuals and organisations to act responsibly and make morally sound decisions. In fields like technology, science and business, it helps prevent harm, promote fairness, and build trust.

Without ethical standards, innovation can lead to privacy violations, discrimination or misuse of power. A code of ethics sets clear expectations, encouraging honesty, accountability and respect, ensuring that progress benefits everyone, not just a few. Like rules in a game, ethics create structure and fairness, helping society function smoothly and justly.

eg.

Imagine a company creates a face recognition app that scans people in public without consent.

without ethics:

- Invades privacy
- Can be misused by bad actors
- Leads to legal issues

With a code of ethics:

- Respect for consent and privacy
- Clear boundaries on data use
- Transparency with users