**ASSIGNMENT FOR WEEK 6 DAY 2**

**FAMILARIZE YOURSELF WITH HARDHAT SMART CONTRACT FRAMEWORK**

Hardhat is an open-source development environment for building smart contracts and dApps (decentralized applications) on Ethereum. It is designed to provide a comprehensive and extensible platform for developing, testing, and deploying Ethereum-based applications.

Here are some key features of the Hardhat framework:

**Easy setup:** Hardhat provides a simple and quick setup process that allows developers to start building and testing their applications right away.

**Testing tools:** Hardhat comes with built-in testing tools that allow developers to write and run automated tests for their smart contracts.

**Ethereum network support:** Hardhat supports several Ethereum networks, including the mainnet, testnets, and local networks.

**Plugin system:** Hardhat has a plugin system that allows developers to extend its functionality with custom plugins.

**Debugging:** Hardhat has a built-in debugging tool that allows developers to debug their smart contracts.

**Gas estimation:** Hardhat can estimate the gas cost of a transaction or contract deployment before it is executed, helping developers optimize their code.

**Contract interaction:** Hardhat allows developers to easily interact with smart contracts on the Ethereum network using its built-in console.

Overall, Hardhat is a powerful and flexible framework for Ethereum development, and it is used by many developers and organizations in the Ethereum ecosystem.