

Experiment No: 6

Aim: Shows implementation of blockchain platform Ganache.

Theory:

Ganache is a personal blockchain for Ethereum development that you can use to deploy smart contracts, develop applications and run tests.

Steps for Implementation:

Step 1: Downloaded Ganache from truffle suite. Ganache is a part of the truffle suite, a popular platform.

Step 2: Install and launch Ganache. After downloading, select "Quickstart Ethereum" from Ganache GUI.

Step 3: Explore accounts and addresses. Ganache automatically generates 10 accounts each loaded with 100 ETH for testing purpose.

Step 4: Write a simple smart contract using remix IDE, write simple smart contract for adding two numbers.

pragma solidity ^0.8.2;

contract Addition {

function add(uint a, uint b) public
pure returns (uint) {

return a + b;

Step 5: Connect Remix IDE with Ganache

Link Remix IDE with local blockchain

running on Ganache to deploy your
smart contract.

Step 6: Deploy the contract.

Using Remix IDE, deploy the smart
contract to the local blockchain.

Step 7: Observe ether transactions

Monitor the effects and contract

deployment on account balances.

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