

Practical – 8

Name: Dhruv Sonani

Roll Number: 20BCE527

Course Code: 2CSDE93

Course Name: Blockchain Technology

Aim: To design and develop end-to-end decentralized applications (Dapps).

Step 1: Connect <https://oneclickdapp.com/> with MetaMask and give ABI and address of hosting contract to the dApps.

The screenshot shows a web browser window with the URL oneclickdapp.com/new. The page is titled "Dapps" and has a "+ NEW DAPP" button in the top right corner. The main form is titled "New Dapp" and contains the following fields:

- Name:** A text input field with the value "New Token".
- Description:** A text input field with the value "New Token like ERC20".
- Abi:** A text area containing the ABI:

```
{
  "constant": false,
  "inputs": [
    {
      "type": "uint256",
      "name": "value"
    }
  ],
  "outputs": [
    {
      "type": "uint256",
      "name": "value"
    }
  ],
  "stateMutability": "nonpayable"
}
```
- Contract address:** A text input field with the value `0x88c2156b34157d1e1806bf075b778176337c559b`.
- Network name:** A text input field with the value "Sepolia". Below the field, there is a note: "Use 'homestead' for ethereum mainnet. Leave blank for a custom network."

At the bottom of the form is a blue "SAVE" button. The browser's address bar shows the URL and the page title "oneclickdapp.com/new". The Windows taskbar at the bottom shows the system clock as 15:57 on 22-11-2022, and the network status as 30°C Smoke.

Step 2: Select Read option to access read operation of the contract.

The screenshot shows the One Click Dapp interface for a contract named 'New Token' on the Sepolia network, created on November 22, 2022. The contract address is 0x88c2156b34157d1e1806bf075b778176337c559b. The ABI includes functions like Is_Address_Whitelisted, Mint_New_Tokens, allowance, approve, balanceOf, burnTokens, decimals, name, symbol, and totalSupply. The 'Read' button is selected, and the 'allowance (address,address)' function is chosen. A message on the right says 'Wrong network. Please switch to sepolia'.

Step 3: Select Write option to access Write operation of the contract.

The screenshot shows the One Click Dapp interface for the same 'New Token' contract. The 'Write' button is selected, and the 'name' function is chosen. A 'SUBMIT' button is visible. The result area at the bottom shows 'Result CUSTOM_TOKEN'.