

BLOCKCHAIN TECHNOLOGY LAB

(20CP406P)

LAB ASSIGNMENT - 8



B.Tech in Computer Science and Engineering Dept.,
Pandit Deendayal Energy University,
Gandhinagar



Name: Vrushank Ariwala

Roll No.: 19BCP141

Branch: CSE

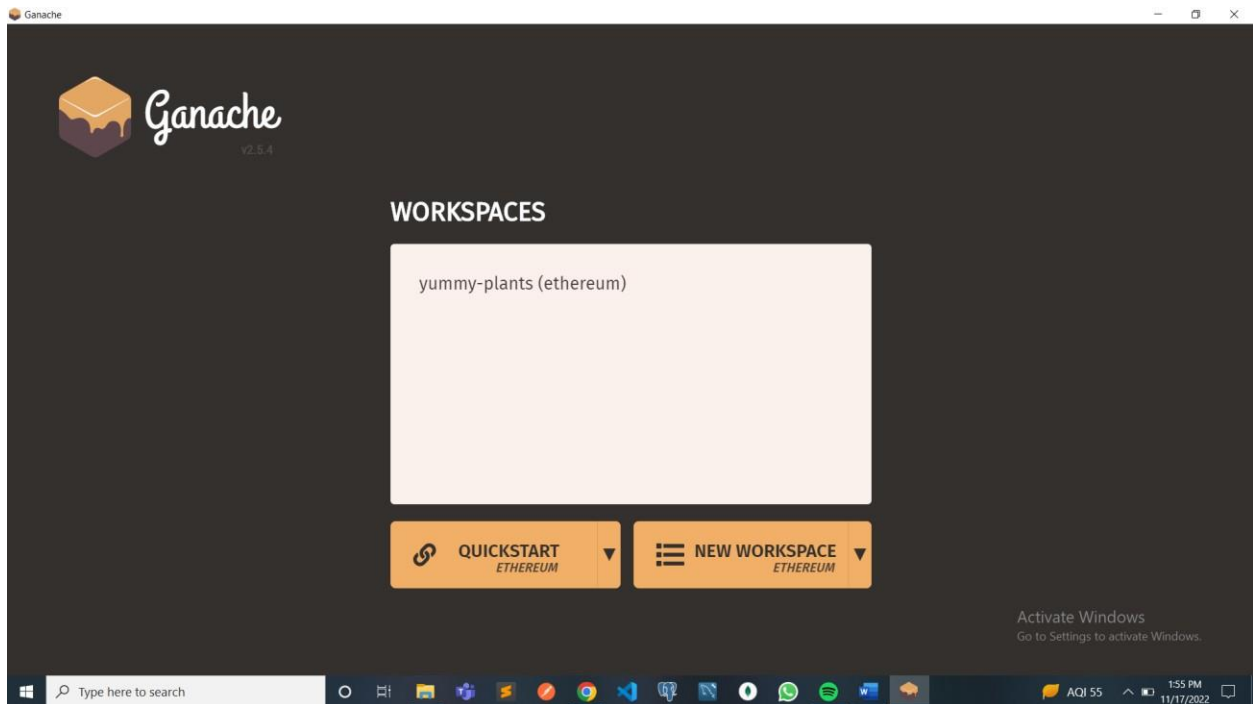
❖ Aim:

Create the Private Ethereum Setup through Ganache Cli and Truffle.

❖ Implementation:

Step 1:

Installing ganache UI



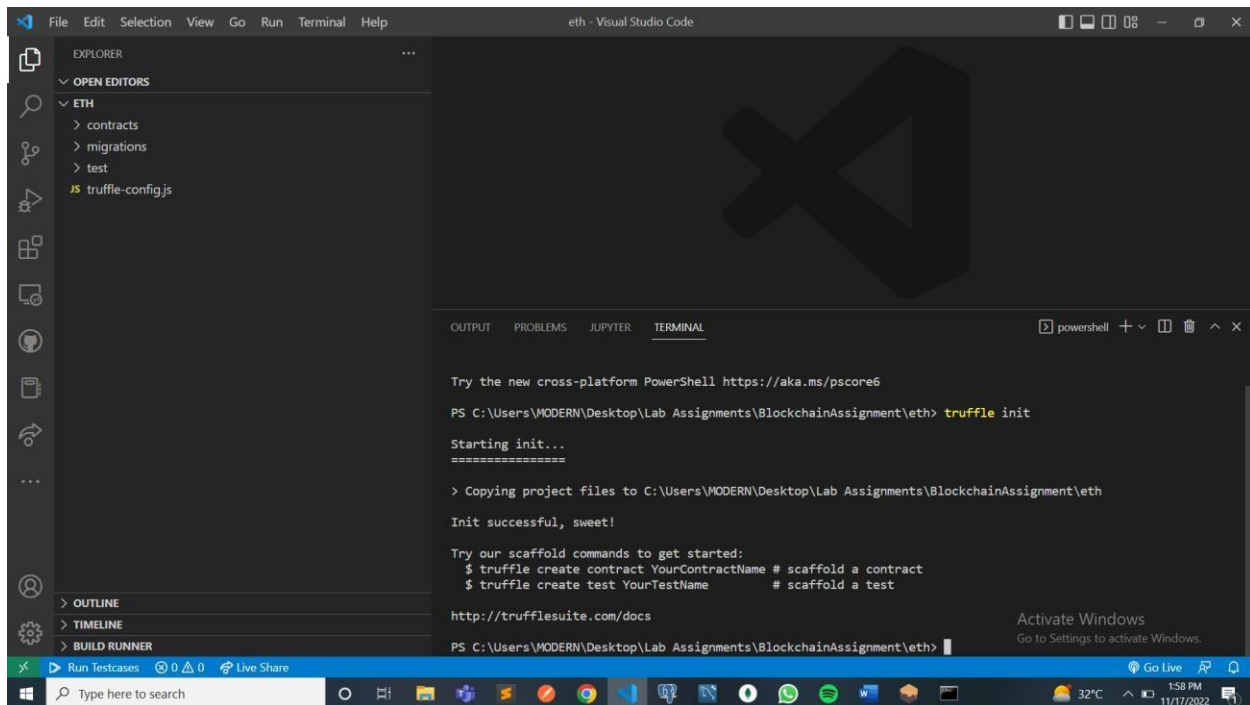
Step 2:

Installing truffle in your system using command: `npm install -g truffle`

```
C:\Users\MODERN>truffle version
Truffle v5.5.28 (core: 5.5.28)
Ganache v7.4.0
Solidity v0.5.16 (solc-js)
Node v14.17.4
Web3.js v1.7.4
```

Step 3:

Creating a truffle project inside a new folder using command: `truffle init`



The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the output of the `truffle init` command. The Explorer sidebar on the left shows a project structure with folders for `contracts`, `migrations`, `test`, and a file `truffle-config.js`. The terminal output is as follows:

```
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\MODERN\Desktop\Lab Assignments\BlockchainAssignment\eth> truffle init

Starting init...
=====
> Copying project files to C:\Users\MODERN\Desktop\Lab Assignments\BlockchainAssignment\eth
Init successful, sweet!

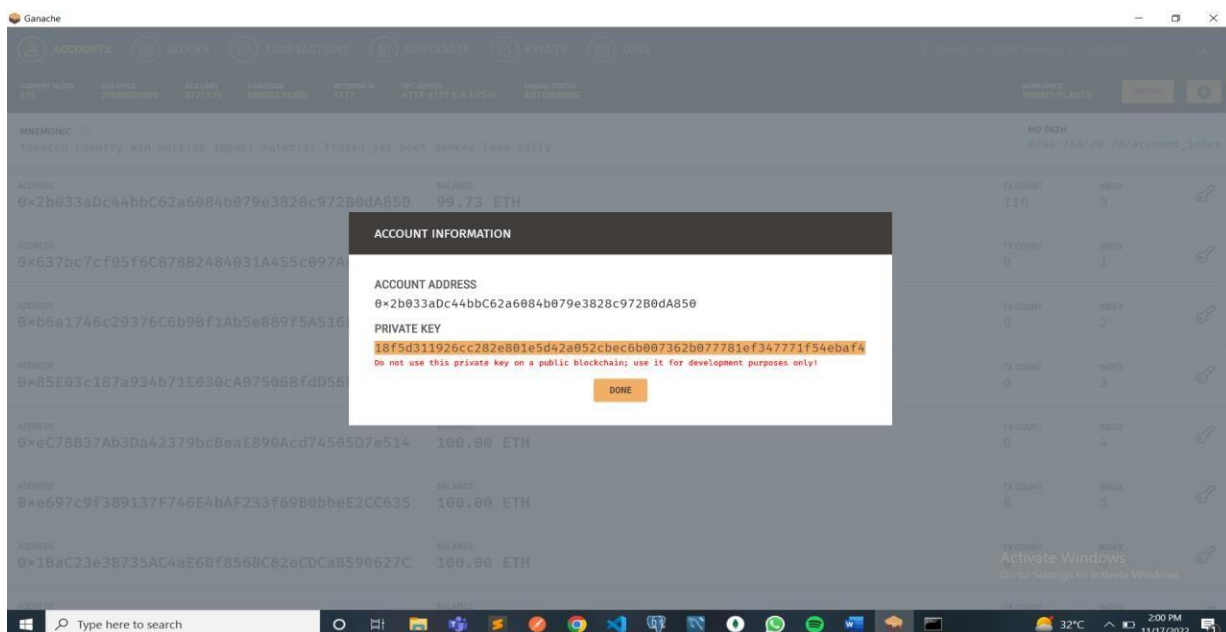
Try our scaffold commands to get started:
$ truffle create contract YourContractName # scaffold a contract
$ truffle create test YourTestName       # scaffold a test

http://trufflesuite.com/docs

PS C:\Users\MODERN\Desktop\Lab Assignments\BlockchainAssignment\eth>
```

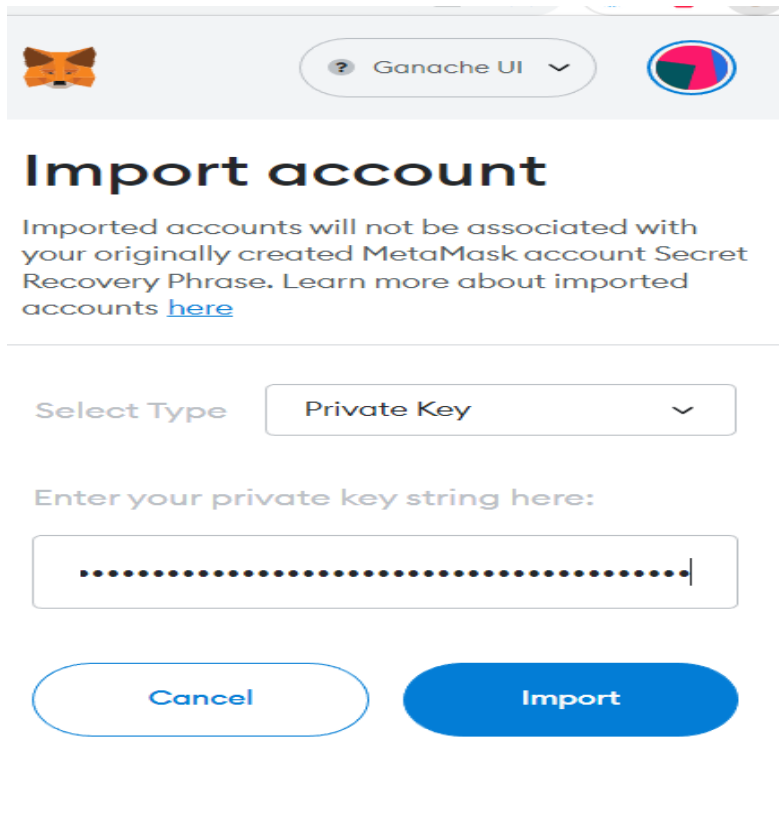
Step 4:

Creating a project inside Ganache UI and taking its private key



Step 5:

Adding the copied private key of the ganache UI inside metamask and click import



The screenshot shows the MetaMask 'Import account' interface. At the top, there is a header bar with the MetaMask fox logo on the left, a dropdown menu labeled 'Ganache UI' in the center, and a circular icon on the right. Below the header, the title 'Import account' is displayed in a large, bold font. Underneath the title, a paragraph of text states: 'Imported accounts will not be associated with your originally created MetaMask account Secret Recovery Phrase. Learn more about imported accounts [here](#)'. A horizontal line separates this text from the input section. In the input section, there is a label 'Select Type' followed by a dropdown menu currently showing 'Private Key'. Below this, the text 'Enter your private key string here:' is followed by a text input field containing a series of dots and a cursor. At the bottom of the dialog, there are two buttons: a light blue 'Cancel' button and a dark blue 'Import' button.