

Modern Education Society's Wadia College of Engineering Pune-01

Department of Computer Engineering

Name of Student:	Class:
Semester/Year:	Roll No:
Date of Performance:	Date of Submission:
Examined By:	Assignment No: 1

Laboratory Practice – III (Blockchain Technology)

ASSIGNMENT NO: 01

AIM: Installation of MetaMask and study spending Ether per transaction.

OBJECTIVES: To help students understand the basic concepts of blockchain, types of blockchain and platforms available to connect with blockchain.

THEORY:

Blockchain is defined as a ledger of decentralized data that is securely shared. Blockchain technology enables a collective group of select participants to share data. With blockchain cloud services, transactional data from multiple sources can be easily collected, integrated, and shared. Ethereum is the best one of the popularly used public blockchain. MetaMask is a software cryptocurrency wallet used to interact with the Ethereum blockchain. It allows users to access their Ethereum wallet through a browser extension or mobile app, which can then be used to interact with decentralized applications.

MetaMask allows users to store and manage account keys, broadcast transactions, send and receive Ethereum-based crypto currencies and tokens, and securely connect to decentralized applications through a compatible web browser or the mobile app's built-in browser. Websites or other decentralized applications are able to connect, authenticate, and/or integrate other smart contract functionality with a user's MetaMask wallet (and any other similar blockchain wallet browser extensions) via JavaScript code that allows the website to send action prompts, signature requests, or transaction requests to the user through MetaMask as an intermediary.

CONCLUSION:

Installation and analysis of MetaMask is successfully completed. Students were able to create wallet and observe process for ether transactions.

QUESTIONS:

1. Explain various types of blockchain with example
2. Write short note on Ethereum. Explain Ether concept in Ethereum.
3. Explain advantages of MetaMask.
4. Explain concept of Wallet and its usage in blockchain.
5. Explain in detail about Ether observed through Etherscan.