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Assignment No: 2

Title of the Assignment: Create your own wallet using Metamask for crypto transactions

Objective of the Assignment: Students should be able to learn about cryptocurrencies and learn how transaction done by using different digital currency

Prerequisite:

1. Basic knowledge of cryptocurrency

2. Basic knowledge of distributed computing concept

3. Working of blockchain

Contents for Theory:

1. Cryptocurrency

2. Transaction Wallets

3. Ether transaction

Introduction to Cryptocurrency

● Cryptocurrency is a digital payment system that doesn't rely on banks to verify transactions. It's a peer-to-peer system that can enable anyone anywhere to send and receive payments. Instead of being physical money carried around and exchanged in the real world, cryptocurrency payments exist purely as digital entries to an online database describing specific transactions. When you transfer cryptocurrency funds, the transactions are recorded in a public ledger. Cryptocurrency is stored in digital wallets.

● Cryptocurrency received its name because it uses encryption to verify transactions. This means advanced coding is involved in storing and transmitting cryptocurrency data between wallets and to public ledgers. The aim of encryption is to provide security and safety.

● The first cryptocurrency was Bitcoin, which was founded in 2009 and remains the best known today. Much of the interest in cryptocurrencies is to trade for profit, with speculators at times driving prices skyward.

How does cryptocurrency work?

● Cryptocurrencies run on a distributed public ledger called blockchain, a record of all transactions updated and held by currency holders.

● Units of cryptocurrency are created through a process called mining, which involves using computer power to solve complicated mathematical problems that generate coins. Users can also buy the currencies from brokers, then store and spend them using cryptographic wallets.

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● If you own cryptocurrency, you don't own anything tangible. What you own is a key that allows you to move a record or a unit of measure from one person to another without a trusted third party.

● Although Bitcoin has been around since 2009, cryptocurrencies and applications of blockchain technology are still emerging in financial terms, and more uses are expected in the future. Transactions including bonds, stocks, and other financial assets could eventually be traded using the technology. Cryptocurrency examples There are thousands of cryptocurrencies.

Some of the best known include:

● Bitcoin: Founded in 2009, Bitcoin was the first cryptocurrency and is still the most commonly traded. The currency was developed by Satoshi Nakamoto – widely believed to be a pseudonym for an individual or group of people whose precise identity remains unknown.

● Ethereum: Developed in 2015, Ethereum is a blockchain platform with its own cryptocurrency, called Ether (ETH) or Ethereum. It is the most popular cryptocurrency after Bitcoin.

● Litecoin: This currency is most similar to bitcoin but has moved more quickly to develop new innovations, including faster payments and processes to allow more transactions

. ● Ripple: Ripple is a distributed ledger system that was founded in 2012. Ripple can be used to track different kinds of transactions, not just cryptocurrency. The company behind it has worked with various banks and financial institutions.

● Non-Bitcoin cryptocurrencies are collectively known as "altcoins" to distinguish them from the original. How to store cryptocurrency

● Once you have purchased cryptocurrency, you need to store it safely to protect it from hacks or theft. Usually, cryptocurrency is stored in crypto wallets, which are physical devices or online software used to store the private keys to your cryptocurrencies securely. Some exchanges provide wallet services, making it easy for you to store directly through the platform. However, not all exchanges or brokers automatically provide wallet services for you.

● There are different wallet providers to choose from. The terms "hot wallet" and "cold wallet" are used:

● Hot wallet storage: "hot wallets" refer to crypto storage that uses online software to protect the private keys to your assets

. ● Cold wallet storage: Unlike hot wallets, cold wallets (also known as hardware wallets) rely on offline electronic devices to securely store your private keys.

Conclusion- In this way we have explored Concept Cryptocurrency and learn how transactions are done using digital currency

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Assignment Question

1. What is Bitcoin?

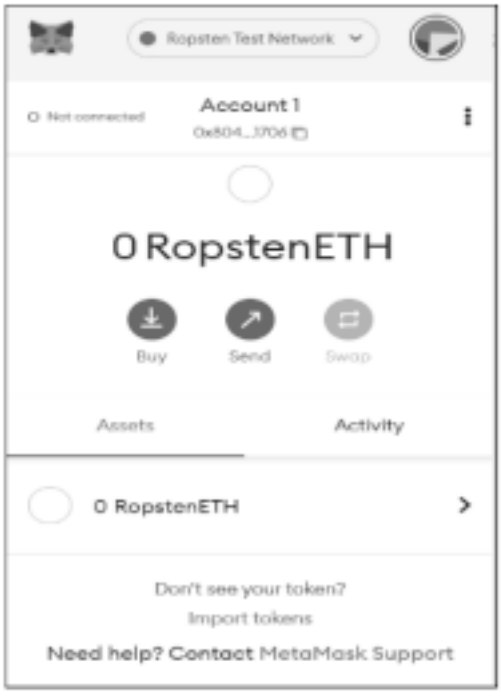
2. What Are the biggest Four common cryptocurrency scams

3. Explain How safe are money e-transfers?

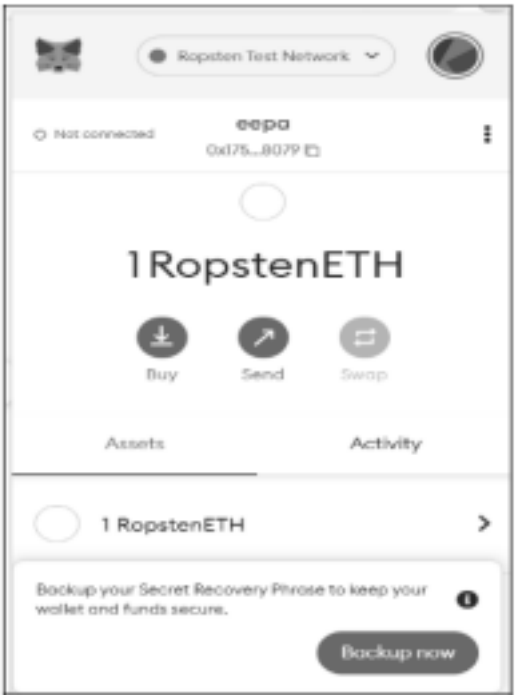
Steps for transaction in Metamask

Add your steps PDF Printout mention steps as per below (For reference)

Step 1 : Login to the MetaMask Account and checked the Account Before transactions. Account 01 is Having 0 RopstenETH.



Step 2 : Login to the MetaMask Account and checked the Account Before transactions."eepa" Account 02 is having 1 RopstenETH. Start transaction from the "eepa". Click on Send.



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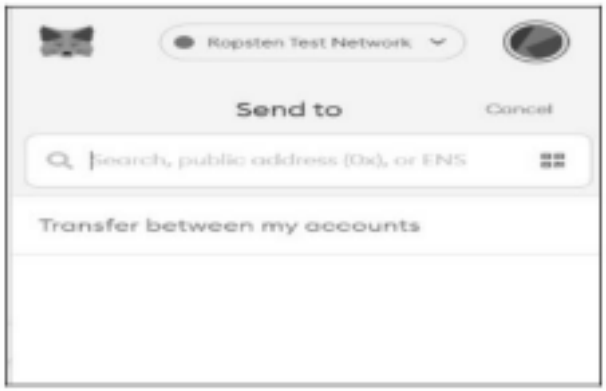
Step 3 : Enter the public address of "Account 1".



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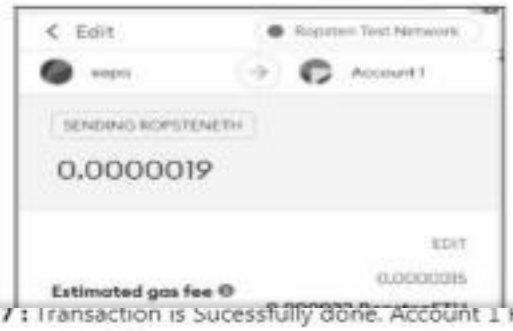
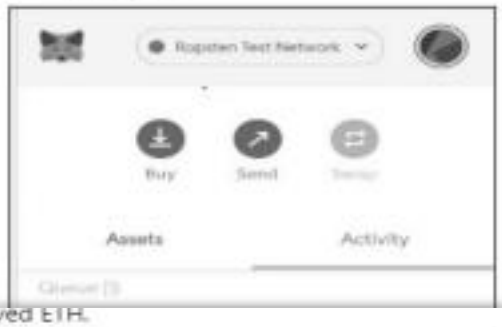
Step 4 : Click the Balance Amount in Asset and Enter the Amount to send the ETH. Check the Details of the Asset and Amount. Click on Next Button.

Step 5 : Click on Confirm Button.



Step 6 : Transaction status will shown "Pending" for few time Wait.



Step 7 : Transaction is Sucessfully done. Account 1 Received ETH.

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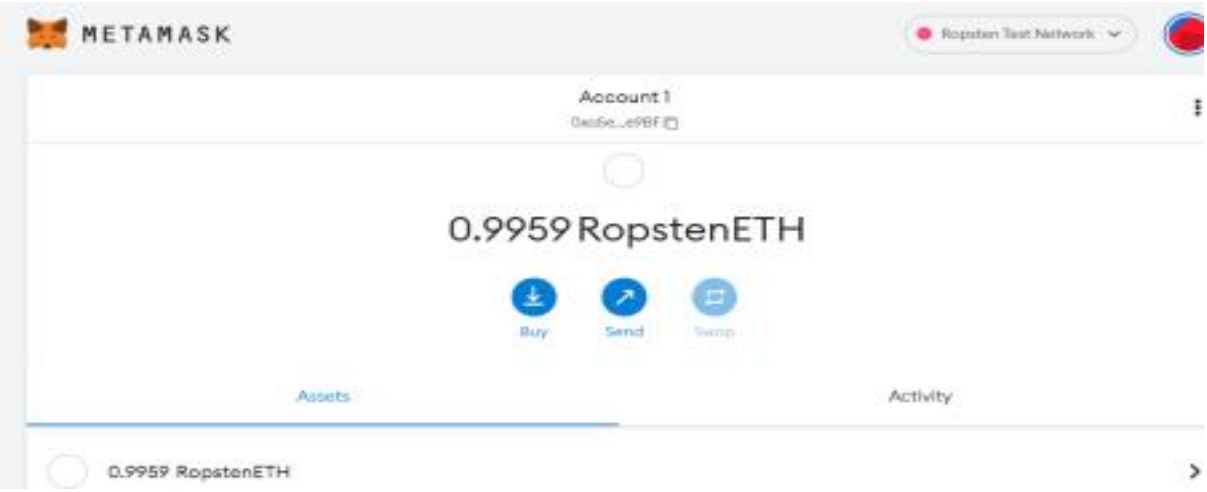

Track the Transaction using Etherscan