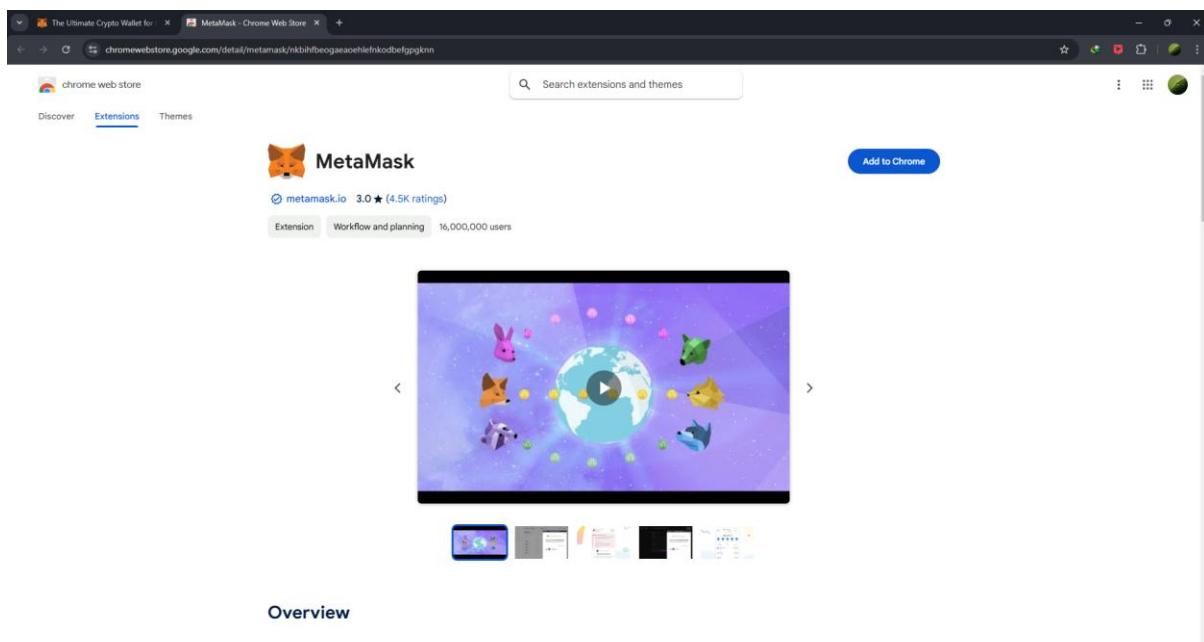
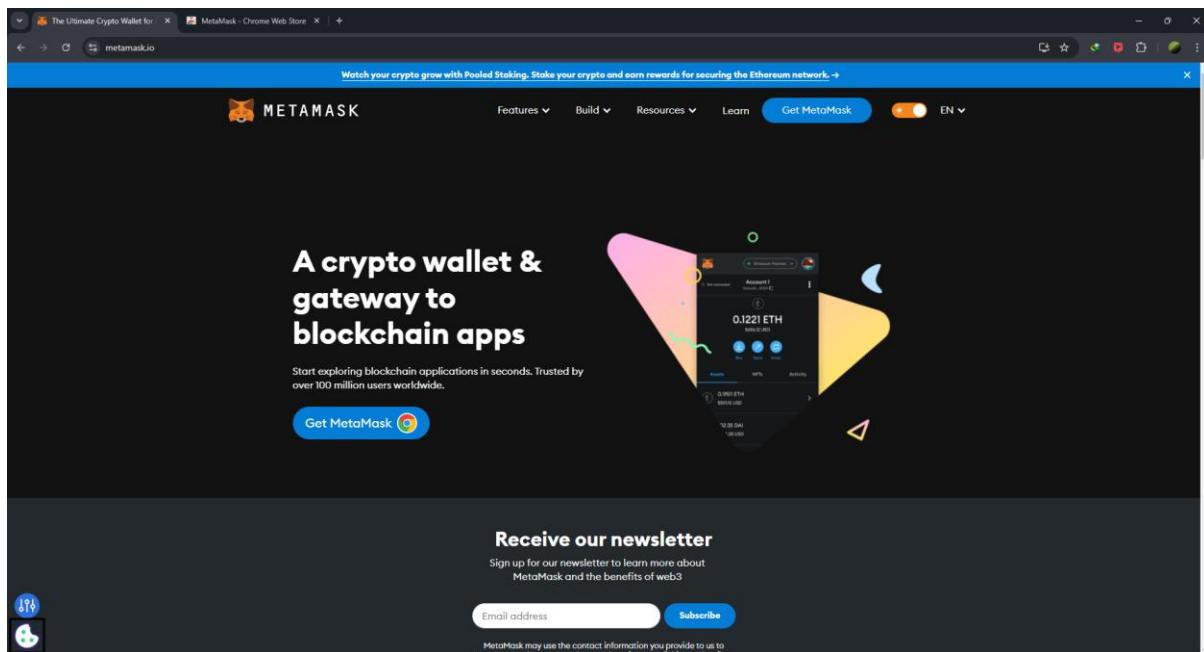
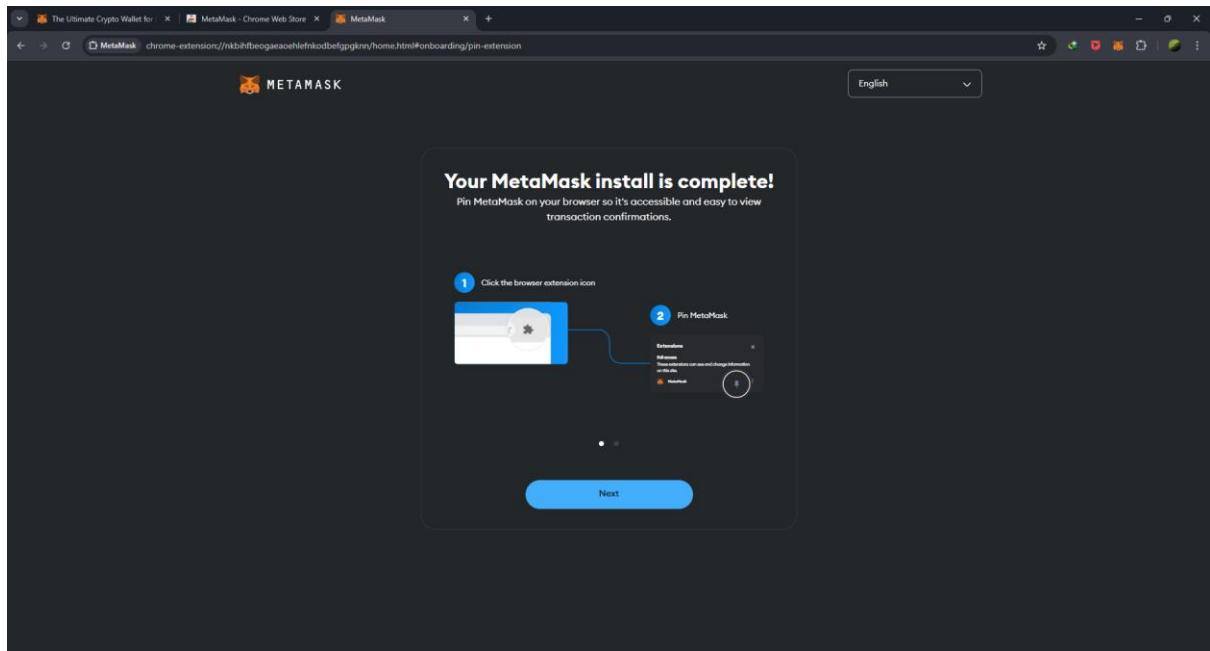


Experiment 9

Aim of the Experiment: Download Meta Mask and add on the Chrome Extension. Add a test network in Meta Mask and do the transaction of Ether from one account to another. After that, download ganache. Import Ganache accounts in Meta Mask environment and transfer Ether.





The MetaMask setup is done.

Proceeding for transaction of 0.5 ETH using Sepolia Network

Two screenshots side-by-side. The left screenshot shows the MetaMask wallet interface with a balance of \$0.00 USD and options to Buy & Sell, Swap, Bridge, Send, and Receive. The right screenshot shows a confirmation message from the Ethereum Sepolia Faucet stating "Drip complete" and providing details like Network (Ethereum Sepolia), Recipient (0xa717d11707755DE5fc1442596C08fC319D23461), and Transaction hash (0xcelc33e9589c5f27e994642b431f58bd0c63316b0c513ec462ae9ebc5243-bce).

Transaction of 0.5 ETH

Ganache Installed.

Dashboard (With 10 ETH Account)

The screenshot shows the Ganache interface with the following details:

ADDRESS	BALANCE	TX COUNT	INDEX	Key
0x499a50477158Bd029aa0014a66C573dF3728DBeF	100.00 E TH	0	0	🔑
0xE6eB098d722593E36D6944A36086C6C0D50b4961	100.00 E TH	0	1	🔑
0x36b95668dFF6241Ee3E3c0f868d9E0519628C7c0	100.00 E TH	0	2	🔑
0x29430c772a2199C3ed4296218bbE263c9c38c98B	100.00 E TH	0	3	🔑
0x1905bCd557141aac570D703007a89Af5e351Cba4	100.00 E TH	0	4	🔑
0x45BdFc30332436f9177f399d3212527FdFf802B8	100.00 E TH	0	5	🔑
0xe9A5CBF65D30a7a15D09D0E3647403a18f7EE662	100.00 E TH	0	6	🔑
0xdEe89C608b0bafA9C6cB92D174300099Ca	100.00 E TH	0	7	🔑

MNEMONIC: eternal laptop medal derive bundle list wife spawn input nut entry degree
HD PATH: m/44'/60'/0'@account_index

Ganache

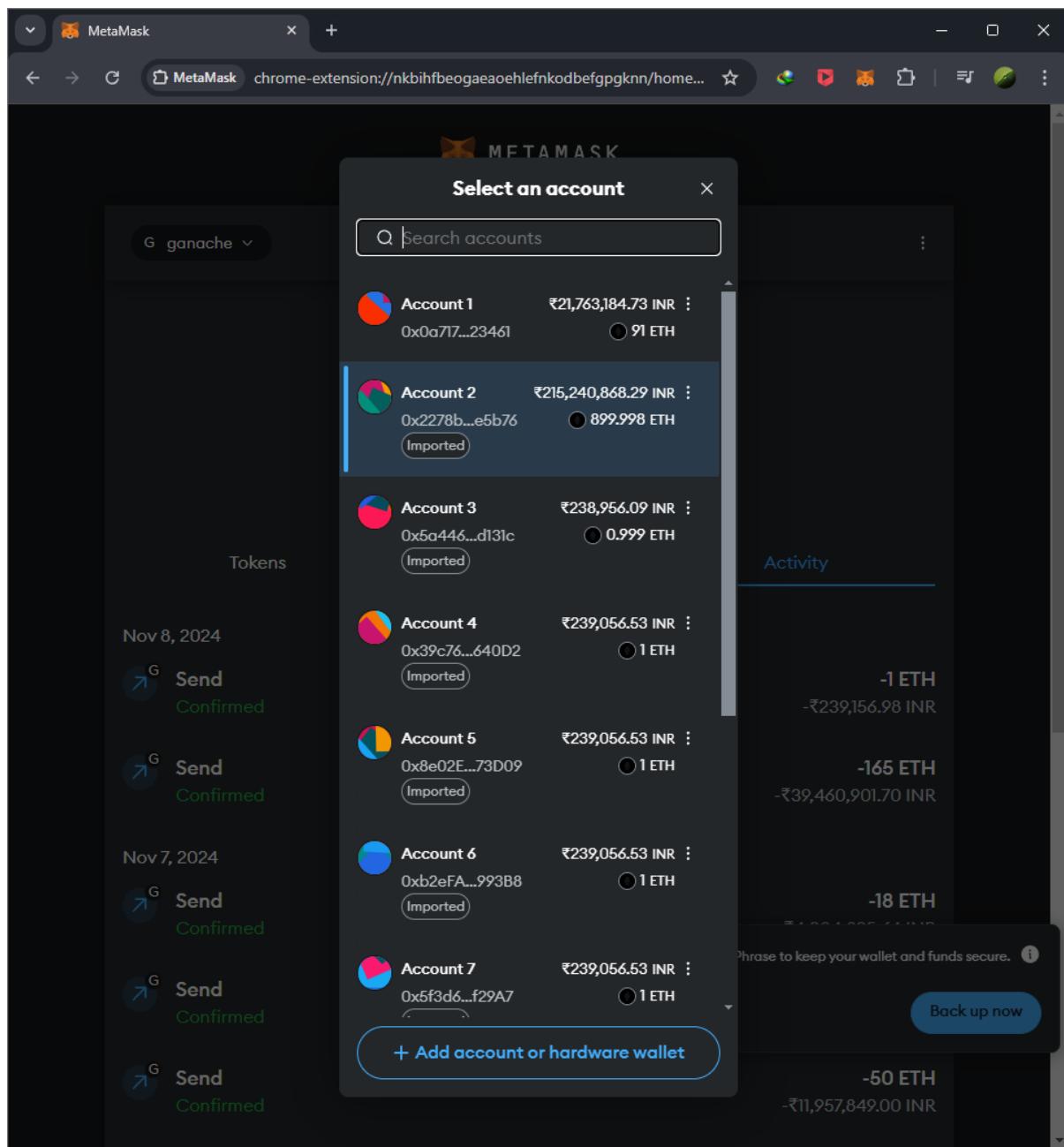
ACCOUNTS **BLOCKS** **TRANSACTIONS** **CONTRACTS** **EVENTS** **LOGS** **SEARCH FOR BLOCK NUMBER**

CURRENT BLOCK GAS PRICE: 20000000000 | GAS LIMIT: 6721975 | HARDFORK: MERGE | NETWORK ID: 5777 | RPC SERVER: HTTP://127.0.0.1:7545 | MINING STATUS: AUTOMINING | WORKSPACE: UNHEALTHY-BREATH | **SWITCH** | **SETTINGS**

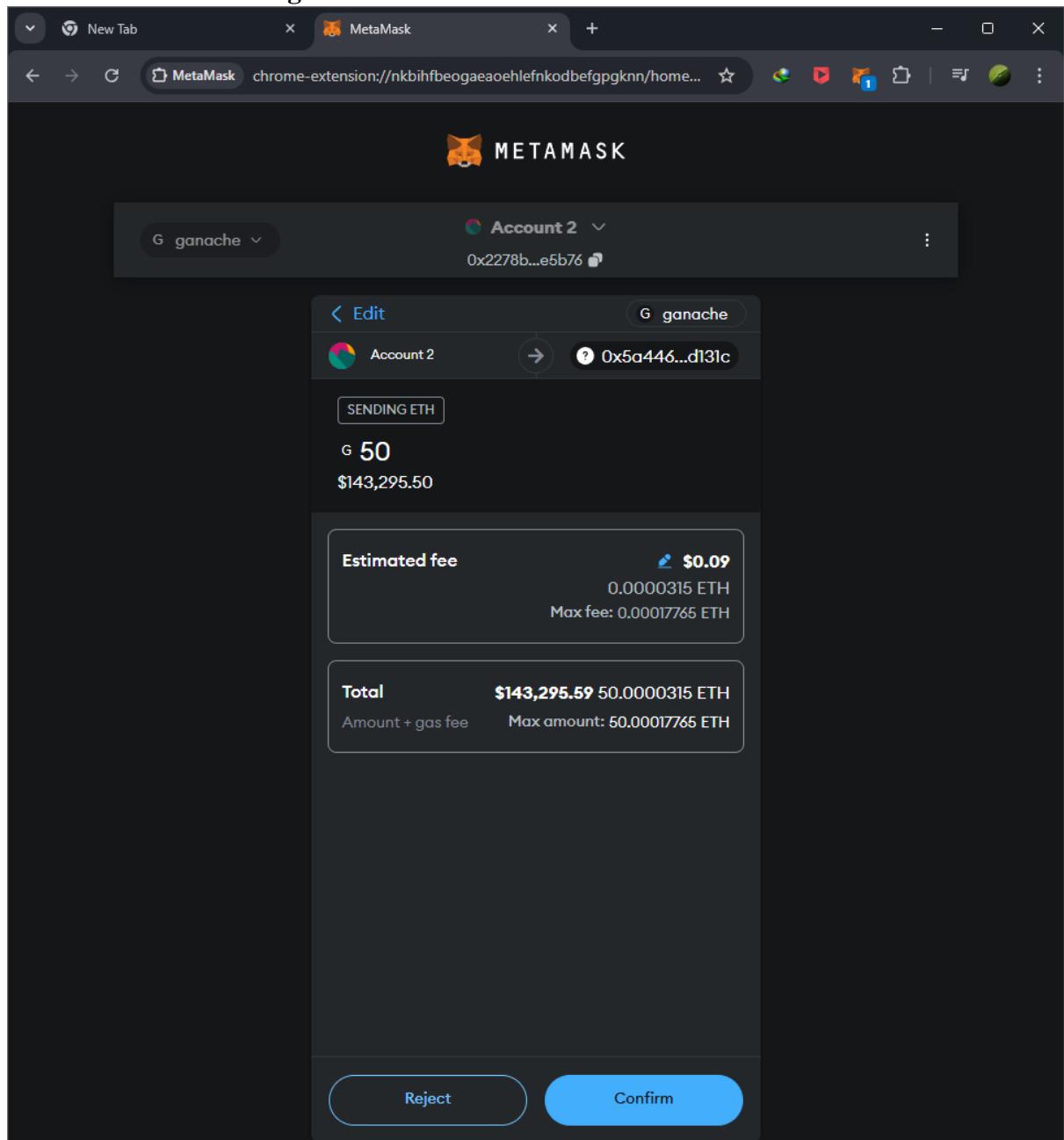
MNEMONIC: disorder deposit buzz mushroom rally month copper rather keep cage position side
HD PATH: m44'60'0'0account_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0x2278b101c5669F05569E7B9dB8dA5A3D88D e5b76	20.00 E TH	2	0	
0x5a44692F69A15B7834050d259b2Df20Dd1 ad131c	150.00 E TH	0	1	
0x39c763B35D61ad10B4D7e049aF220519aB c640D2	100.00 E TH	0	2	
0x8e02E433d38145B2E31Dde8bBd1e4ea586 373D09	100.00 E TH	0	3	
0xb2eFA02481976403C96999c6fEcAb93AB9 9993B8	100.00 E TH	0	4	
0x5f3d613Ff9517390CD6Daec9b21f674a35 2f29A7	130.00 E TH	0	5	
0x0365e88A8F2384E70DbF587dAa043e2AeF 756E72	100.00 E TH	0	6	
0xF0C88A7f32f72eEA22D1B8E4a73e6C8fDB C0af13	100.00 E TH	0	7	

Loaded all Account



Sending 50 ETH from account 2 to Some ETH Account



The image shows two side-by-side screenshots of the Metamask wallet interface. Both screenshots show a dark-themed wallet with a balance of \$286,591.00 USD.

Left Screenshot (Pending Transaction):

- Shows a transaction being sent from Account 2 (0x2278b...e5b76) to another address.
- The transaction amount is -50 ETH.
- The status is "Pending".
- Buttons at the bottom include "Cancel" and "Speed up".

Right Screenshot (Completed Transaction):

- Shows the same transaction now confirmed.
- The status is "Confirmed".
- Buttons at the bottom include "Cancel" and "Speed up".

Transaction Pending

Transaction Done

The image shows a screenshot of the Geth UI (User Interface) for Ethereum development. The top navigation bar includes tabs for ACCOUNTS, BLOCKS, TRANSACTIONS, CONTRACTS, EVENTS, and LOGS, along with a search bar for block numbers.

ACCOUNTS Section:

- Current Block Gas Price: 20000000000
- GAS LIMIT: 6721975
- HARDFORK: MERGE
- NETWORK ID: 5777
- RPC SERVER: HTTP://127.0.0.1:7545
- MINING STATUS: AUTOMINING
- WORKSPACE: QUICKSTART
- Buttons: SAVE and SWITCH

MNEMONIC: disorder deposit buzz mushroom rally month copper rather keep cage position side

HD PATH: m/44'/60'/0'@account_index

Address Data:

ADDRESS	BALANCE	TX COUNT	INDEX	Key
0x2278b101c5669f05569e7b9db8dA5A3D88D e5b76	50.00 ET	1	0	🔑
0x5a44692f69a15b7834050d259b2Df20Dd1 ad131c	150.00 ET	0	1	🔑

Performed some other transaction from each account

The image shows a screenshot of the Geth UI (User Interface) for Ethereum development, similar to the previous one but with more accounts listed.

ACCOUNTS Section:

- Current Block Gas Price: 20000000000
- GAS LIMIT: 6721975
- HARDFORK: MERGE
- NETWORK ID: 5777
- RPC SERVER: HTTP://127.0.0.1:7545
- MINING STATUS: AUTOMINING
- WORKSPACE: UNHEALTHY-BREATH
- Buttons: SWITCH and Settings

MNEMONIC: disorder deposit buzz mushroom rally month copper rather keep cage position side

HD PATH: m/44'/60'/0'@account_index

Address Data:

ADDRESS	BALANCE	TX COUNT	INDEX	Key
0x2278b101c5669f05569e7b9db8dA5A3D88D e5b76	1.00 ET	5	0	🔑
0x5a44692f69a15b7834050d259b2Df20Dd1a d131c	1.00 ET	2	1	🔑
0x39c763B35D61ad10B4D7e049aF220519aBc 640D2	1.00 ET	1	2	🔑
0x8e02E433d38145B2E31Dde8bBd1e4ea5863 73D09	1.00 ET	1	3	🔑
0xb2eFA02481976403C96999c6fEcAb93AB99 993B8	1.00 ET	1	4	🔑
0x5f3d613FF9517390CD6Daec9b21f674a352 f29A7	1.00 ET	1	5	🔑
0x0365e88A8F2384E70DbF587dAa043e2AeF7 56E72	1.00 ET	1	6	🔑
0xF0C88A7f32f72eEA22D1B8E4a73e6C8fDBC 0af13	1.00 ET	1	7	🔑

BLOCK

Ganache

CURRENT BLOCK	GAS PRICE	GAS LIMIT	HARDFORK	NETWORK ID	RPC SERVER	MINING STATUS	WORKSPACE	SWITCH	SETTINGS
15	20000000000	6721975	MERGE	5777	HTTP://127.0.0.1:7545	AUTOMINING	UNHEALTHY-BREATH		
BLOCK 15	MINED ON 2024-11-08 00:06:16				GAS USED 21000			1 TRANSACTION	
BLOCK 14	MINED ON 2024-11-08 00:05:56				GAS USED 21000			1 TRANSACTION	
BLOCK 13	MINED ON 2024-11-08 00:05:06				GAS USED 21000			1 TRANSACTION	
BLOCK 12	MINED ON 2024-11-08 00:04:49				GAS USED 21000			1 TRANSACTION	
BLOCK 11	MINED ON 2024-11-08 00:04:38				GAS USED 21000			1 TRANSACTION	
BLOCK 10	MINED ON 2024-11-08 00:04:27				GAS USED 21000			1 TRANSACTION	
BLOCK 9	MINED ON 2024-11-08 00:04:14				GAS USED 21000			1 TRANSACTION	
BLOCK 8	MINED ON 2024-11-08 00:03:56				GAS USED 21000			1 TRANSACTION	
BLOCK 7	MINED ON 2024-11-08 00:03:45				GAS USED 21000			1 TRANSACTION	
BLOCK 6	MINED ON 2024-11-08 00:03:31				GAS USED 21000			1 TRANSACTION	
BLOCK 5	MINED ON 2024-11-08 00:02:41				GAS USED 21000			1 TRANSACTION	
BLOCK 4	MINED ON 2024-11-07 23:54:50				GAS USED 21000			1 TRANSACTION	
BLOCK 3	MINED ON 2024-11-07 23:52:17				GAS USED 21000			1 TRANSACTION	
BLOCK 2	MINED ON 2024-11-07 23:50:45				GAS USED 21000			1 TRANSACTION	

Transactions

Ganache									
ACCOUNTS	BLOCKS	TRANSACTIONS	CONTRACTS	EVENTS	LOGS	SEARCH FOR BLOCK NUMBER			
CURRENT BLOCK GAS PRICE 15	GAS LIMIT 6721975	HARDFORK MERGE	NETWORK ID 5777	RPC SERVER HTTP://127.0.0.1:7545	MINING STATUS AUTOMINING	WORKSPACE UNHEALTHY-BREATH	SWITCH 		
FROM ADDRESS				TO ADDRESS		GAS USED	VALUE		
0x0365e88A8F2384E70DbF587dAa043e2AeF750x0a717d11707755DE5fc1442596C08Fc319D221000 6E72				3461		99000000000000000000000000000000			
TX HASH				0x75ab2895ec2098669bbf209d2b01a84a223300a67beb7a21cb4338493f8ab0c5					
FROM ADDRESS				TO ADDRESS		GAS USED	VALUE		
0x5f3d613FF9517390CD6Daec9b21f674a352f0x0a717d11707755DE5fc1442596C08Fc319D221000 29A7				3461		12900000000000000000000000000000			
TX HASH				0xacdd940b0edfd05f2135686f434d8471deff872e4330bccaa54683d5e3e7f82ef					
FROM ADDRESS				TO ADDRESS		GAS USED	VALUE		
0xb2eFA02481976403C96999c6fEcAb93AB9990x0a717d11707755DE5fc1442596C08Fc319D221000 93B8				3461		9900000000000000000000000000000			
TX HASH				0x3063aef4b41425d97a837f4a9e648ca238c43ff3003688422339dd7ca03d6058					
FROM ADDRESS				TO ADDRESS		GAS USED	VALUE		
0x8e02E433d38145B2E31Dde8bBd1e4ea586370x0a717d11707755DE5fc1442596C08Fc319D221000 3D09				3461		9900000000000000000000000000000			
TX HASH				0xb137afb9d8b608f936d8ef72aa44e5d27fca44328280f3d7cdd6d409df29d303					
FROM ADDRESS				TO ADDRESS		GAS USED	VALUE		
0x39c763B35D61ad10B4D7e049aF220519aBc60x0a717d11707755DE5fc1442596C08Fc319D221000 40D2				3461		9900000000000000000000000000000			
TX HASH				0x8c9e3a63afe3ae351bee58deb8480c1fb65ac481f6ace850038669f697778fe3					
FROM ADDRESS				TO ADDRESS		GAS USED	VALUE		
0x2278b101c5669F05569E7B9dB8dA5A3D88De0x0a717d11707755DE5fc1442596C08Fc319D221000 5b76				3461		1650000000000000000000000000000			

Detailed Transactions

The screenshot shows the Ganache interface with the 'TRANSACTIONS' tab selected. At the top, it displays network information: CURRENT BLOCK GAS PRICE 15, GAS LIMIT 6721975, HARDFORK MERGE, NETWORK ID 5777, RPC SERVER HTTP://127.0.0.1:7545, MINING STATUS AUTOMINING, and WORKSPACE UNHEALTHY-BREATH. A 'SEARCH FOR BLOCK NUMBER' input field is also present.

The main content area shows a transaction with the identifier **0x8c9e3a63afe3ae351bee58deb8480c1fb65ac481f6ace850038669f69**. The transaction details are as follows:

SENDER ADDRESS	TO ADDRESS	VALUE TRANSFER	
0x2278b101c5669F05569E7B9dB8dA5A3D88De5b76	0x0a717d11707755DE5fc1442596C08Fc319D23461	165.00 ETH	21000 20000000000 21000 5
TX DATA		0x	

Credited 900 ETH from all account to Account Index 0

The screenshot shows the Ganache interface with the 'ACCOUNTS' tab selected. It displays the mnemonic phrase: disorder deposit buzz mushroom rally month copper rather keep cage position side. The HD PATH is listed as m/44'/60'/0/0/account_index.

An account entry is shown with the following details:

ADDRESS	BALANCE	TX COUNT	INDEX
0x2278b101c5669F05569E7B9dB8dA5A3D88De5b76	900.00 ETH	5	0

Submitted By

Keshav Abhishek
Reg: 2201020582
Branch: CS & IT
Group: 4