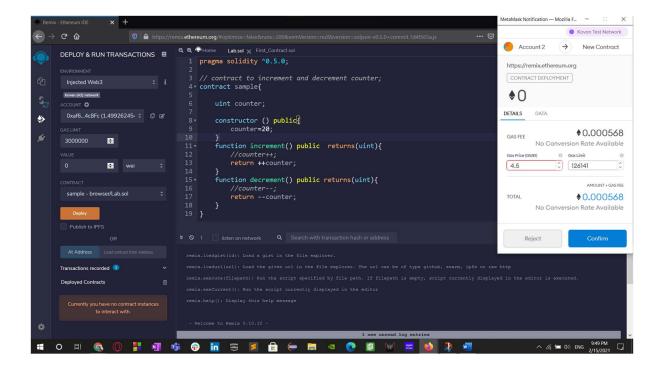
## LAB -4 BLOCKCHAIN AND CRYPTOCURRENCIES

**VIBHAV SHARMA** 

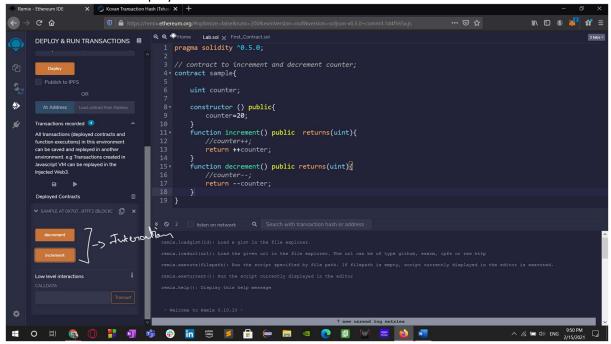
E18CSE206

## TASK 1:

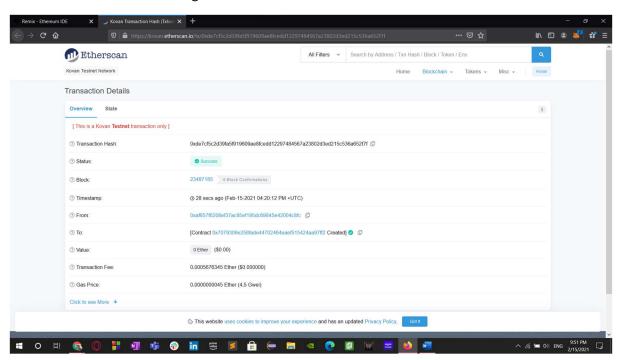
Write a smart contract using solidity programming to increment and decrement the counter variable. Compile the smart contract using Remix IDE and deploy the compiled contract into the Ethereum public blockchain network (test networks) through injected web3 using MetaMask.



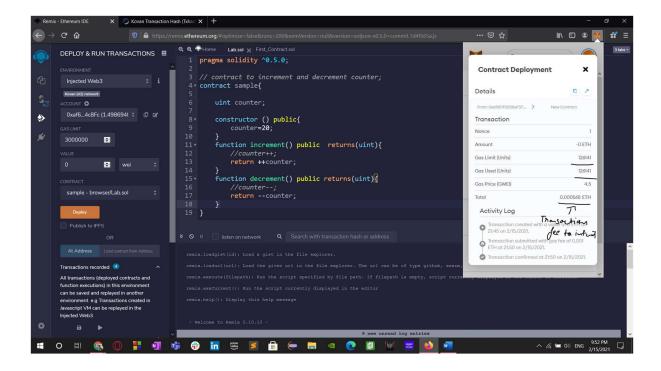
A-> Interact with the deployed contract



B-> View the Block details using Etherscan

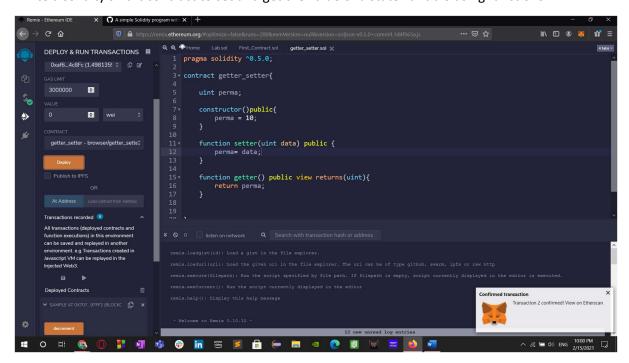


C-> • Check the transaction fee applicable for contract deployment.

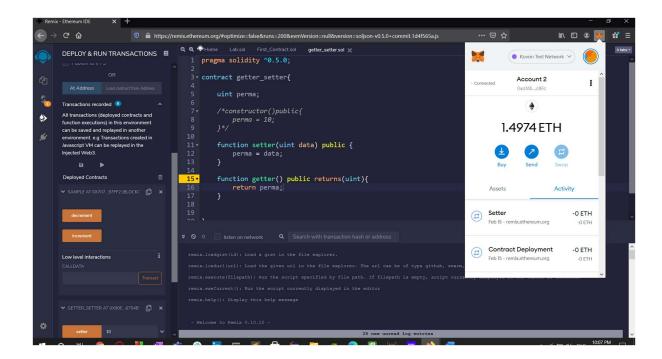


## TASK 2:

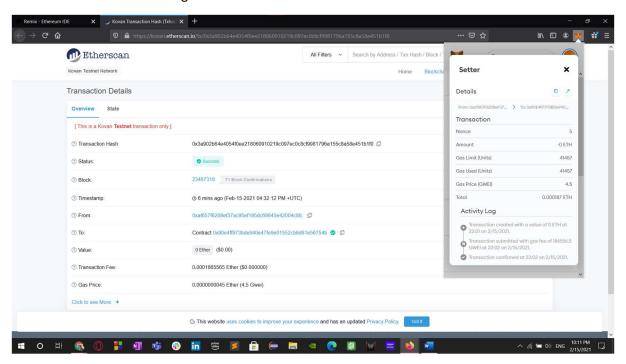
Write a solidity smart contract to set and get the value of a state variable using functions.



• Interact with the contract



• View the Block details using Etherscan:



## TASK 3:

Write a smart contract to demonstrate inheritance in solidity programming. Make use of public and internal keywords to illustrate variable scope in the contract. Compile and deploy the contract into Ethereum test network using MetaMask.

