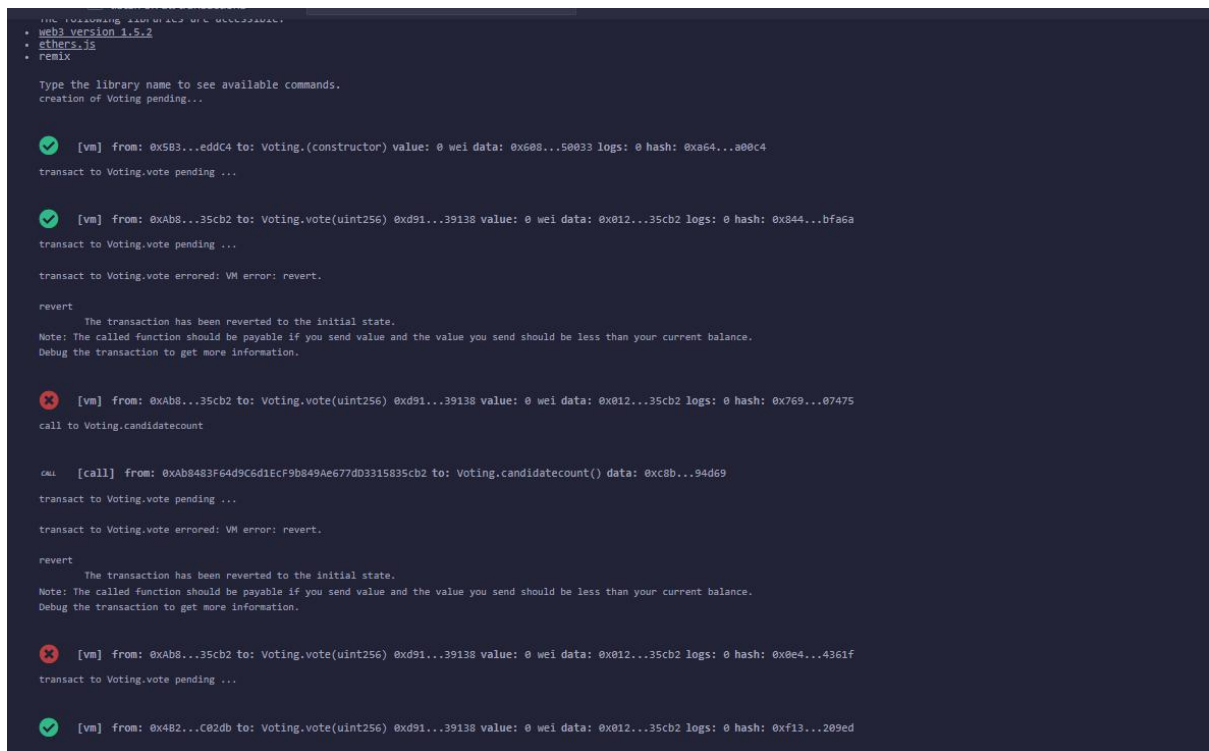
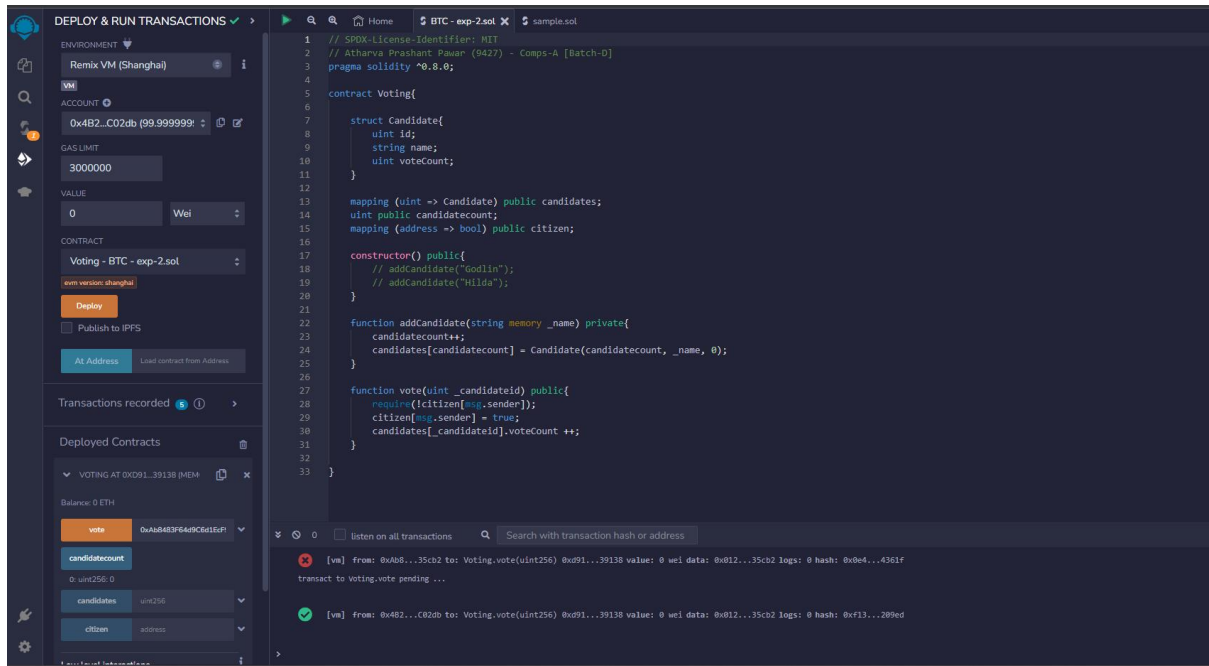


## Experiment No. 2

### Creating the Smart Contract

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**Aim:** Creating and deploying Smart Contract using Solidity and Remix IDE.



**Conclusion:** We have successfully created and deployed the smart contract.

## Review Questions

Q. 1 What is Remix IDE?

Q. 2 How smart contract is created using Remix IDE?

Q. 3 How the smart contract is deployed using Remix IDE?

Q. 4 What is Gas?

Q. 5 What is account in Remix IDE?

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BCT : Exp 2 Postlab

DATE:

Q. 1. What is Remix IDE?

⇒ Remix IDE is an integrated development environment (IDE) designed for building & deploying smart contracts on the Ethereum blockchain. It offers a user friendly interface that allows developers to write, test & debug Solidity smart contracts efficiently. Remix IDE is entirely web-based & requires no installation, making it accessible from any modern browser.

Q. 2. How smart contract is created using Remix IDE?

⇒

1. Open ~~Remix~~ Remix IDE in your web browser.
2. Create a new Solidity file ~~as a~~
3. Write the smart contract code using Solidity program, lang.
4. Use the built-in editor features for code completion & syntax highlighting.
5. Click the compiler button to check for any compilation errors.
6. Once the code compiles successfully, click the Deploy & Run Transaction.
7. Test the deployment on test network.

Q. 3. How the smart contract is deployed using Remix IDE?

1. Open Remix IDE.
2. Open or create Solidity smart contract.
3. Click the compile button to check compilation errors.
4. Go to the 'Deploy & Run Transaction' tab in Remix IDE.
5. Connect IDE to an EVM (eg: JS VM (JVM))
6. Click the Deploy button.
7. Confirm the transaction details in the popup window that appears.
8. Wait for the transaction to be mined, & once it's successfully mined, your smart contract is deployed & ready to use on EVM.

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Q. 4. What is GAS?

⇒ Gas is the context of Blockchain refers to the unit of computational effort required to execute operations on smart contracts on the EVM. It acts as a measure of computational resources consumed during transaction or contract interactions. Each operation on the EVM consumes specific amount of GAS.

Q. 5. What is account in Remix IDE?

⇒ An account represents a user's identity or address on the EVM BCT. It is associated with a private key that allows the user to sign transactions & interact with the Blockchain. Remix IDE provides a list of accounts that you can use to deploy & interact with smart contracts during development & testing.