## Task 2

**Overview:** Explored the concept of smart contracts, ERC-20 token standards, and the Ethereum Virtual Machine (EVM).

Learned about Solidity programming language, constructors, state variables, mappings, events, and functions.

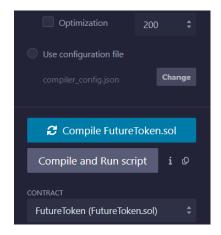
Applied this knowledge to write and deploy a token contract on Remix VM with a fixed initial supply.

## **Steps:**

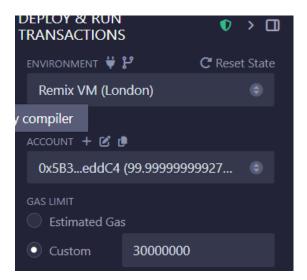
- 1. Turn on Remix IDE and create a smart contract named FutureToken.sol
- 2. Write code for smart contract.

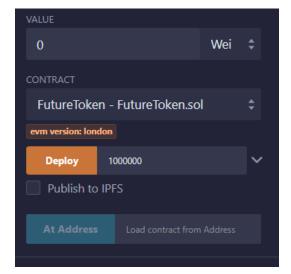
- 3. In the compiler's tab, select 0.8.24 version and select EVM to London.
- 4. Click on Compile FutureToken.sol



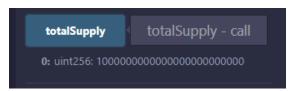


- 5. In Deploy and Run Transaction tab, select Environment Remix VM(London).
- 6. Click on custom Gas limit if you want to increase gas limit.
- 7. Provide initial supply to unit:256 and click on Deploy.

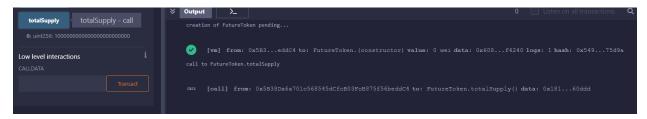




8. It shows total supply of unit256.



9. Smart contract deployed successfully.



**Conclusion:** I gained practical experience writing a real Solidity contract, compiling it, and deploying it on a blockchain environment.

This task gave me confidence to interact with EVM-based networks and build my own decentralized applications in the future.