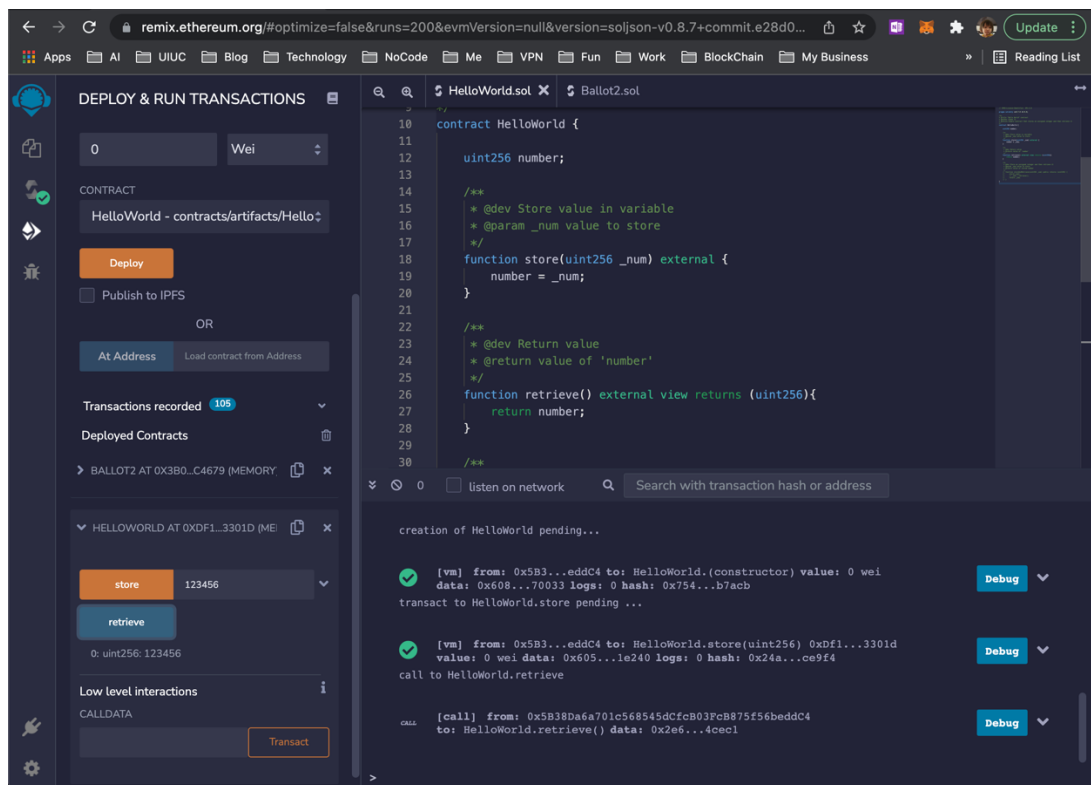


# Background Assignment

- Registration Email: geesimon72@gmail.com
- Discord Username: geesimon#3881
- Assignment 1: HelloWorld
  - Code:  
<https://github.com/geesimon/zku/blob/main/week0/contracts/HelloWorld.sol>
  - Remix screenshot



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- Assignment 2: Ballot Improvement
  - Code:  
<https://github.com/geesimon/zku/blob/main/week0/contracts/Ballot2.sol>
  - Description: Create new function giveRightToManyVoters to take multiple addresses in order to reduce transactions.
  - Gas fees for original script:  $48635 * 10 = 486,350$

The screenshot shows the Remix IDE interface. On the left, the 'DEPLOY & RUN TRANSACTIONS' panel is visible, showing the 'Ballot2' contract. The main editor displays the Solidity code for 'Ballot2.sol', with the 'giveRightToVote' function highlighted. The bottom panel shows the transaction details for the 'giveRightToVote' function, including the gas cost of 331,290.

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- Gas fee for improvement version (giveRightToManyVoters) when taking 10 addresses: 331,290

The screenshot shows the Remix IDE interface. On the left, the 'DEPLOY & RUN TRANSACTIONS' panel is visible, showing the 'Ballot2' contract. The main editor displays the Solidity code for 'Ballot2.sol', with the 'giveRightToManyVoters' function highlighted. The bottom panel shows the transaction details for the 'giveRightToManyVoters' function, including the gas cost of 331,290.

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