

MSSV: DTH225710

Họ và tên: Lê Trí Nhàn

Lớp: DH23TH2

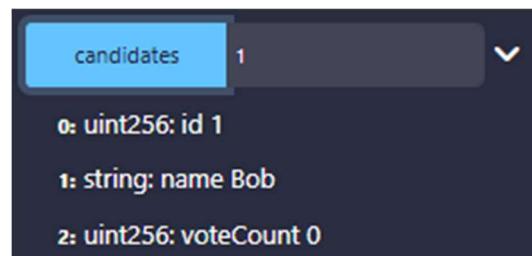
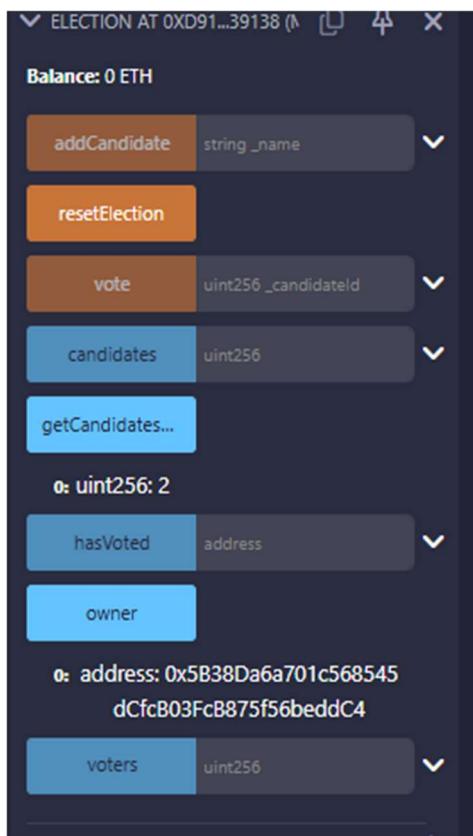
Ngày thực hiện: 29/01/2026

LAB 1:

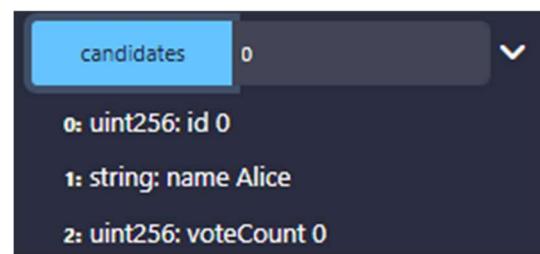
The screenshot shows the Remix IDE interface with the following details:

- Contract Name:** Election.sol
- Environment:** Remix VM (Osaka)
- Gas Limit:** Custom (3000000 Wei)
- Contract Details:** Election - Bai-Thuc-Hanh-DTH225710 (evm version: osaka)
- Deploy Button:** Deploy
- Transactions Recorded:** 1 transaction recorded.
- Deployed Contracts:** ELECTION AT 0xD91...39138 (MΞ)
- Code View:** The code editor displays the Solidity code for the 'Election' contract, which includes functions for adding candidates, voting, and resetting the election.
- Logs/Console:** Shows a log entry for a call to the owner function.

Ảnh 1. Compile thành công



Ảnh 2. candidates(0)



Ảnh 3. candidates(1)

Ảnh 4. gọi hàm owner() và get CandidatesCount()

ELECTION AT 0xD91...39138 ⓘ

Balance: 0 ETH

ADDCANDIDATE

_name: "DTH225710-Le_Tri_Nhan"

Calldata Parameters **transact**

resetElection

vote uint256 _candidateId

candidates 1

0: uint256: id 1
1: string: name Bob
2: uint256: voteCount 0

getCandidates...

0: uint256: 2

hasVoted address

owner

15 ;
16 }
17 event VoteRecorded(address vote)
18 event CandidateAdded(string name)
19 event ElectionReset();
20 **constructor()** { **infinite gas**
21 owner = msg.sender;
22 addCandidate("Alice");
23 addCandidate("Bob");
24 }
25 **function** addCandidate(**string** name)
26 **onlyOwner** {
27 candidates.push(Candidate(**name**,
28 0));
29 emit CandidateAdded(_name);
30 }
31 **function** vote(**uint** _candidateId)
32 **require**(!hasVoted[msg.sender],
33 **require**(_candidateId < candidates.length,
34 hasVoted[msg.sender] = true;

Explain contract

transact to Election.addCandidate pending ...

[vm] From: 0x5B3...eddC4 to: Election

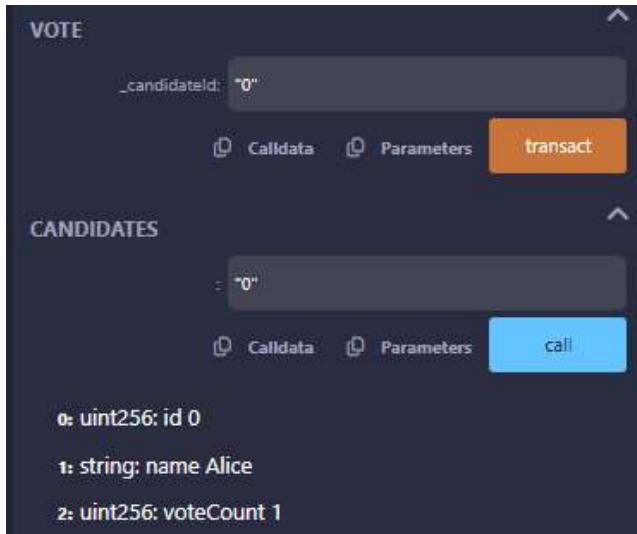
candidates 2

0: uint256: id 2
1: string: name DTH225710-Le_Tri_Nhan
2: uint256: voteCount 0

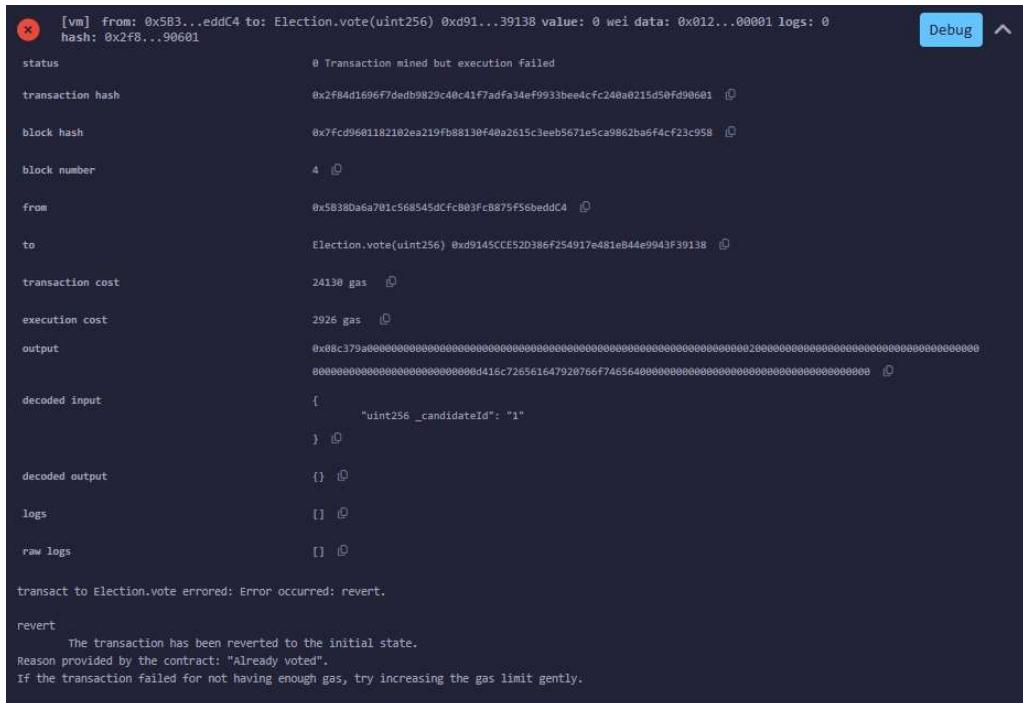
getCandidates...

0: uint256: 3

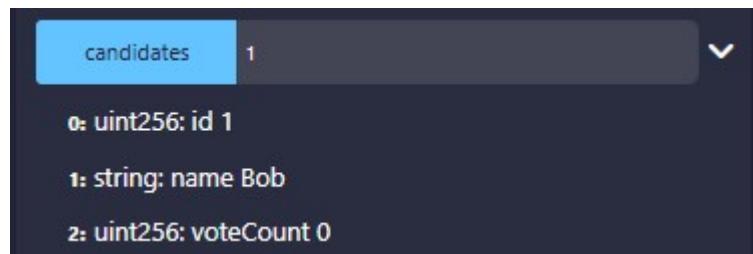
Ảnh 5. khi gọi get CandidatesCount() thấy tăng từ 2=>3, và candidates(2) hiển thị candidate mới tạo ở trên



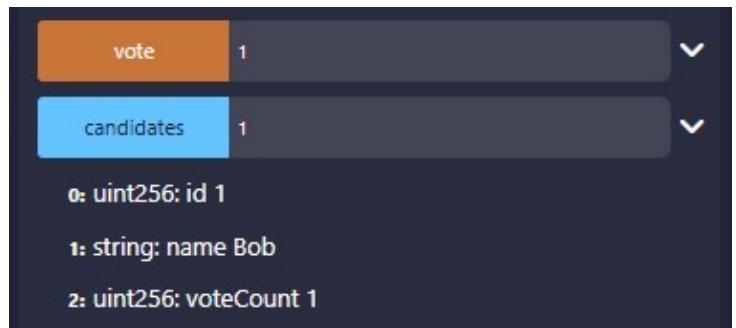
Ảnh 6. gọi vote(0) và candidates(0)



Ảnh 7. gọi vote(1) khi chưa resetElection()



Ảnh 9. trước khi gọi hàm vote(1)



Ảnh 8. sau khi gọi hàm vote(1)

LAB 2:

Election DApp (Ganache)

[Connect Wallet](#)

Connected account **0x3C4286901781FAD5171d7e4dAd091565e2005eA7**

Add Candidate (Owner)

[Add](#)

Candidates

[Load Candidates](#)

- ID: 1 | Name: Bob | Votes: 0
 - ID: 2 | Name: sss | Votes: 0
 - ID: 3 | Name: sssddd | Votes: 1
-

Vote

[Vote](#)

Ảnh 10. vote 3 bằng **0x3C4286901781FAD5171d7e4dAd091565e2005eA7**

Election DApp (Ganache)

[Connect Wallet](#)

Connected account: 0x2DA58E8AbA10cB16888d59df3896e2cca450133e

Add Candidate (Owner)

Candidate name [Add](#)

Candidates

[Load Candidates](#)

- ID: 1 | Name: Bob | Votes: 0
- ID: 2 | Name: sss | Votes: 0
- ID: 3 | Name: sssddd | Votes: 2

Vote

3 [Vote](#)

Ảnh 11. vote 3 bằng 0x2DA58E8AbA10cB16888d59df3896e2cca450133e