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# Assignment Tasks - Week2 - Group No. 5

This is a group activity for at least 3 students:

- Develop and run scripts for "Ballot.sol" within your group to give voting rights, casting votes, delegating votes and querying results
- Write a report with each function execution and the transaction hash, if successful, or the revert reason, if failed
- Submit your weekend project by filling the form provided in Discord
- Submit your code in a github repository in the form

# **Date of Submission**

#### Github Link

https://github.com/evmbootcamp/week2project

#### **Tasks**

#### Successfully deploying the Contract Ballot.sol with 2 Proposals

```
Anamitras-MacBook-Pro:project4 anamitradebnath$ npx ts-node --files ./scripts/DeployWithViem.ts "prop1" "prop2" Deployer address: 0xC3B3105ec9F8527a3aD7E890227349d42fccd474 Deployer balance: 0.032901521129032352 ETH

---- Deploying Ballot contract now ----
Transaction hash: 0x9b13caba0c8627e3ebf2f207041bf57a121b21d30c29d42674eadbd5dace430e
Waiting for confirmations...
```

#### Contract URL on Etherscan:

https://sepolia.etherscan.io/address/0x94245ac9f6e39373d3b3698753d479 03bb1e0240#code

# **Casting Votes**

Script:

CastVote.ts

Script failing when array index given more than the length of proposal array

## Script successfully executing voting for a proposal

```
Anamitras-MacBook-Pro:project4 anamitradebnath$ npx ts-node --files ./scripts/CastVote.ts 0x94245AC9f6E39373d3B3698753d4
7903bb1E0240 0
Proposal selected:
Voting to proposal prop1
Confirm? (Y/n)

Y
Transaction hash: 0xe8a2984ed48c5a753e94826a2c1663becfc38eb4a6c629d3f0080c28218008e3
Waiting for confirmations...
Transaction confirmed
```

#### Giving Voting Rights

#### Script:

GiveRightToVote.ts

## Script successfully giving rights to vote to a new voter

```
• Anamitras-MacBook-Pro:project4 anamitradebnath$ npx ts-node --files ./scripts/GiveRightToVote.ts 0x94245AC9f6E39373d3B3698753d47903bb1E0240 0xeDa7 116C16162B1EFf03D6Eed42b3F42213900f8 parameter's length = 2 --- Executing giveRightToVote() --- Transaction hash: 0x49eb19820159a61daa4235f56d1a511d5ef86ddd9dda57e47adc191851af6d94 Waiting for confirmed T Hash: 0x49eb19820159a61daa4235f56d1a511d5ef86ddd9dda57e47adc191851af6d94

• Anamitras-MacBook-Pro:project4 anamitradebnath$
```

#### Trying to give the same voter voting right again throws error

# Delegate

#### Script

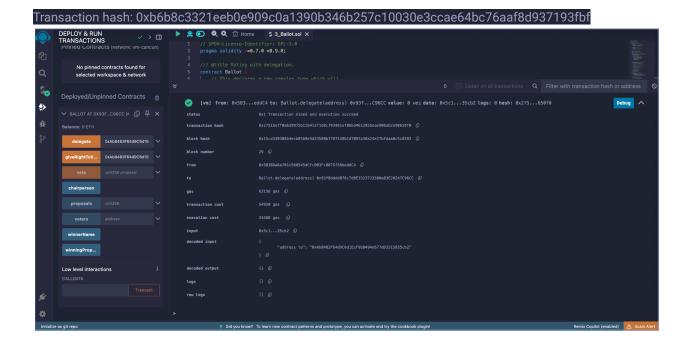
DelegateTo.ts

Script failing when a user who has already voted trying to delegate

```
Anamitras-MacBook-Pro:project4 anamitradebnath$ npx ts-node --files ./scripts/DelegateTo.ts 0x94245AC9f6E39373d3B3698
753d47903bb1E0240 0xeDa7116C16162B1EFf03D6Eed42b3F42213900f8
parameter's length = 2
--- Executing delegate() ---
Transaction Rejected. Reverting changes ...

Anamitras-MacBook-Pro:project4 anamitradebnath$
```

Script successfully executing and delegating to the provided voter



# Winner Proposal

#### Script

Winner.ts

#### Script failing with wrong contract address

#### Script successfully executing and providing winning proposal name

```
Anamitras-MacBook-Pro:project4 anamitradebnath$ npx ts-node — files ./scripts/Winner.ts 0x94245AC9f6E39373d3B3698753d47903bb1E0240

parameter's length = 1
Winning Proposal Is: prop1
```