PRACTICAL 3

AIM:

Write a smart contract of Election with following tasks:

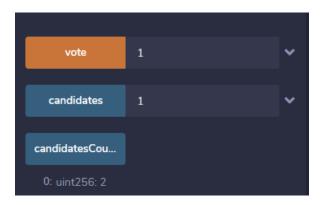
- a. Cast vote against two candidates
- b. Vote should be cast only once.
- c. No voter can vote any third candidate.

CODE:

```
pragma solidity 0.4.23;
contract Election {
  struct Candidate{
    uint id;
    string name;
    uint votecount;
  }
mapping(address => bool) public voters;
mapping(uint => Candidate) public candidates;
uint public candidatesCount;
  event votedEvent (
     uint indexed_candidateId
    constructor () public
       addCandidates("BJP");
       addCandidates("Congress");
    function addCandidates(string _name) private {
       candidatesCount++;
       candidates[candidatesCount] = Candidate(candidatesCount, name, 0);
     function vote(uint _candidateId) public {
       require(!voters[msg.sender]);
       require(_candidateId> 0 && _candidateId<= candidatesCount);
       voters[msg.sender] = true;
       candidates[_candidateId].votecount++;
       emit votedEvent(_candidateId);
```

DEPSTAR (CE)

OUTPUT:



CONCLUSION: In this practical, We learned about Smart Contract of Election.

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