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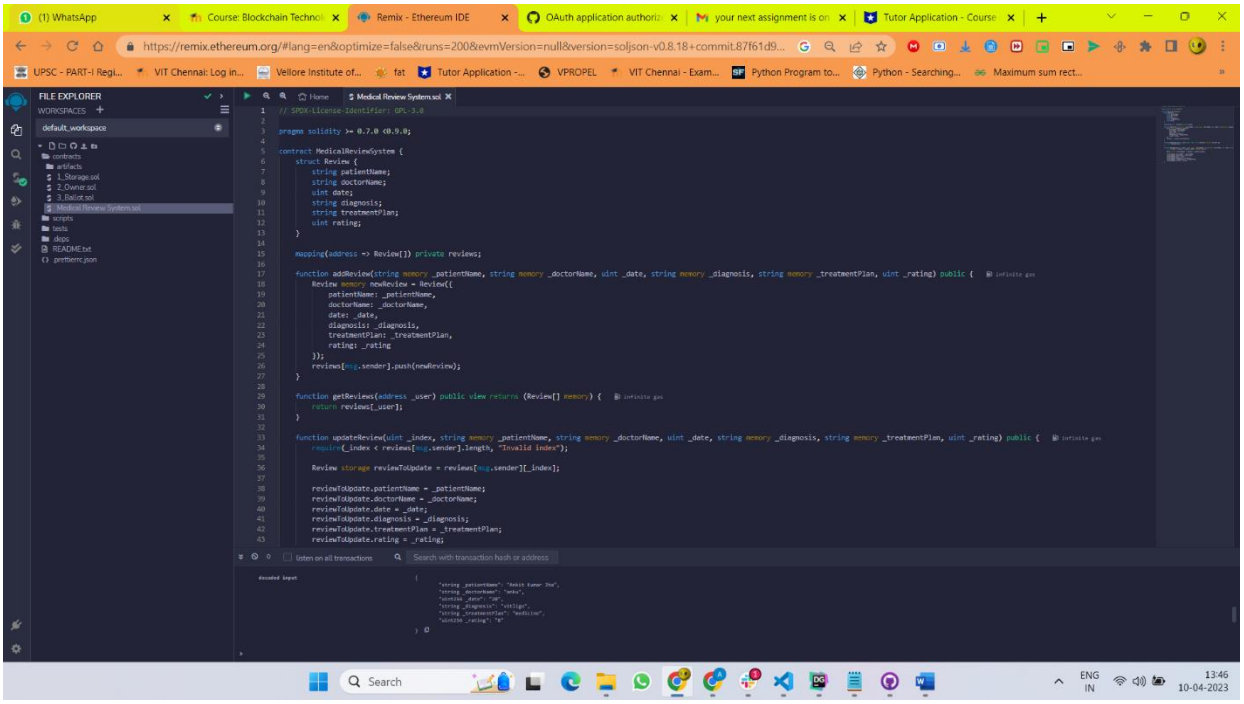
# DIGITAL ASSIGNMENT 1

## Design a medical review system using solidity.

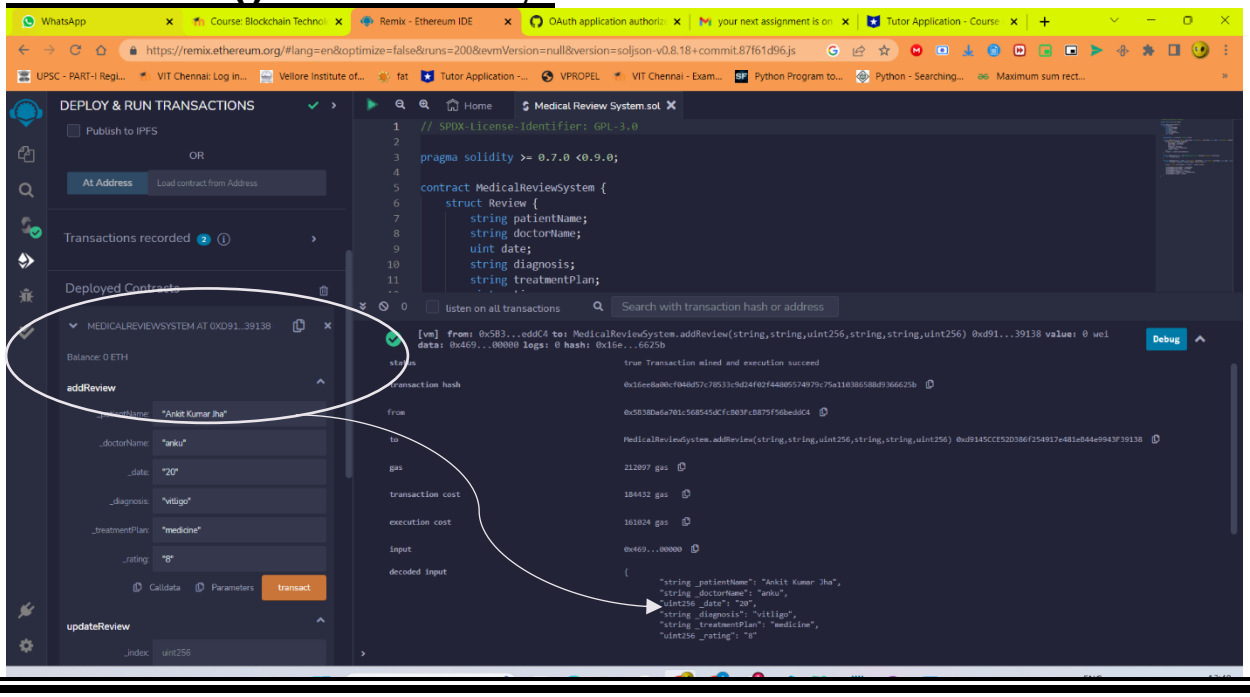


CODE:

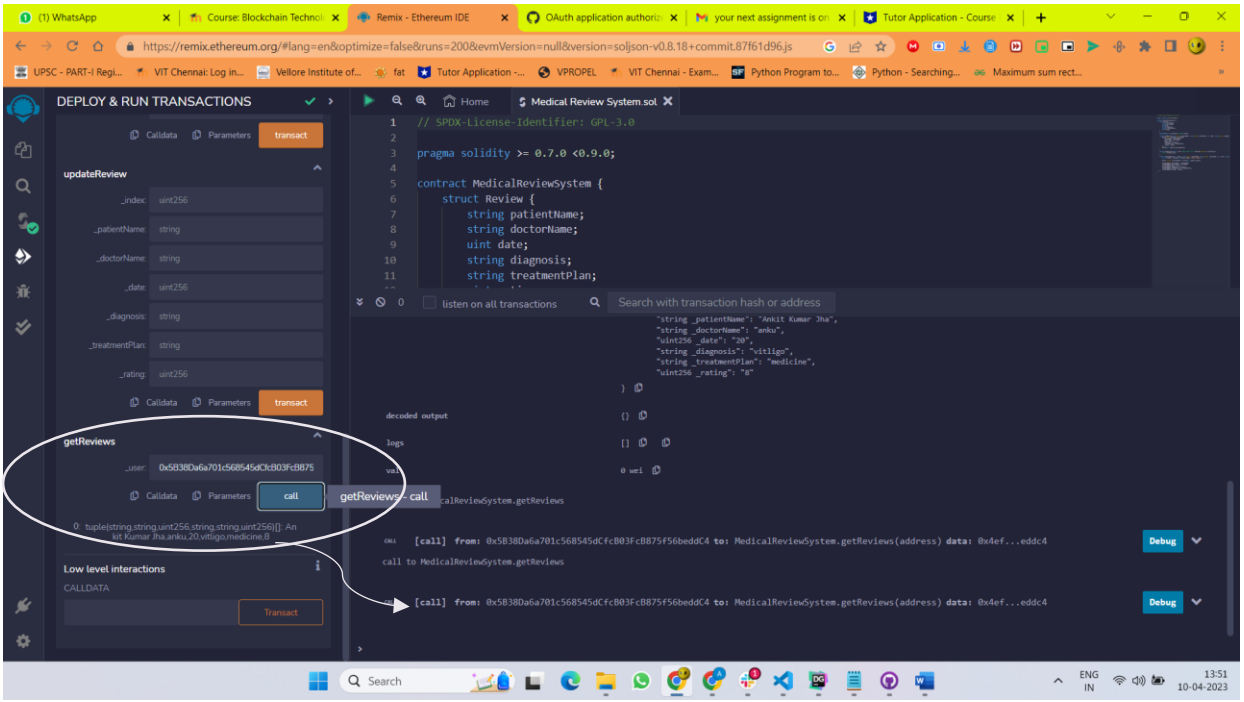
```
// SPDX-License-Identifier: GPL-3.0

pragma solidity >= 0.7.0 <0.9.0;

contract MedicalReviewSystem {
    struct Review {
        string patientName;
        string doctorName;
        uint date;
        string diagnosis;
        string treatmentPlan;
        uint rating;
    }

    mapping(address => Review[]) private reviews;
```

```
function addReview(string memory _patientName, string memory _doctorName, uint _date, string memory
_diagnosis, string memory _treatmentPlan, uint _rating) public {

 Review memory newReview = Review({
        patientName: _patientName,
        doctorName: _doctorName,
        date: _date,
        diagnosis: _diagnosis,
        treatmentPlan: _treatmentPlan,
        rating: _rating
    });
    reviews[msg.sender].push(newReview);
  }

  function getReviews(address _user) public view returns (Review[] memory) {
    return reviews[_user];
  }

  function updateReview(uint _index, string memory _patientName, string memory _doctorName, uint _date, string
memory _diagnosis, string memory _treatmentPlan, uint _rating) public {
    require(_index < reviews[msg.sender].length, "Invalid index");

    Review storage reviewToUpdate = reviews[msg.sender][_index];

    reviewToUpdate.patientName = _patientName;
    reviewToUpdate.doctorName = _doctorName;
    reviewToUpdate.date = _date;
    reviewToUpdate.diagnosis = _diagnosis;
    reviewToUpdate.treatmentPlan = _treatmentPlan;
    reviewToUpdate.rating = _rating;
  }
}
```

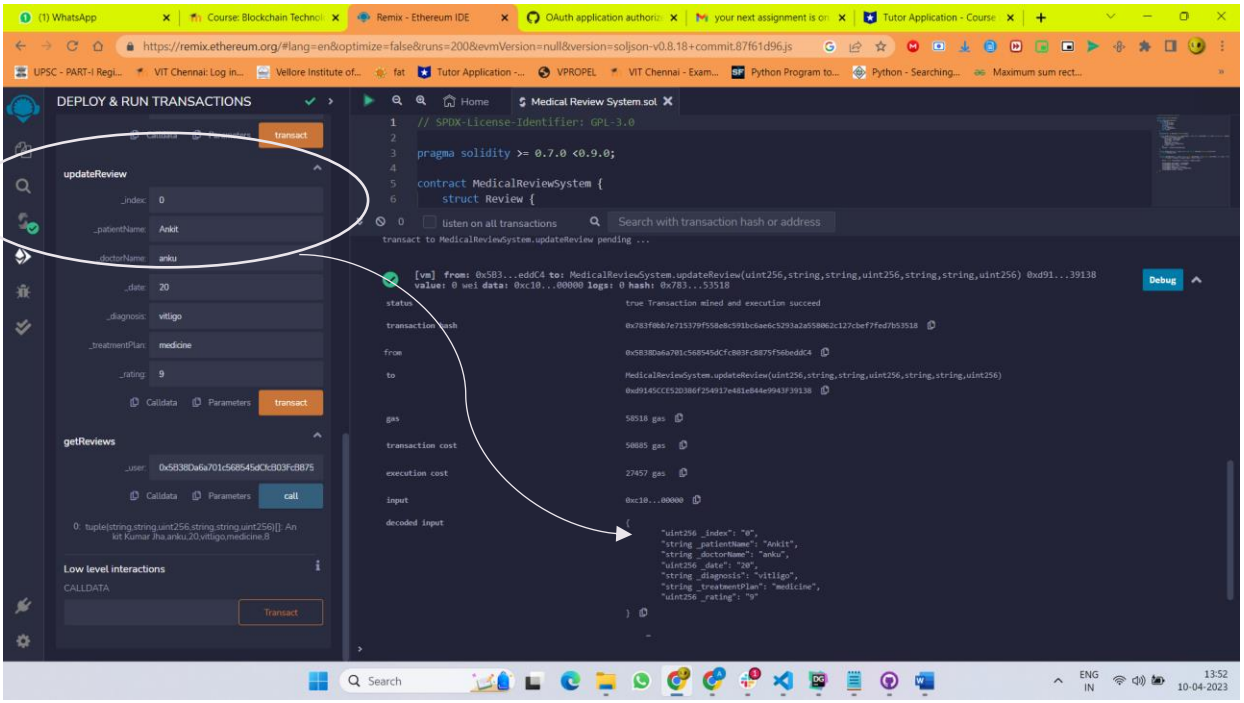
# addReview() functionality:



# getReview() functionality:




# updateReview() functionality:



# getReview() functionality: