```
Run the testrpc in the terminal with:
testrpc
Create a new .sol file in REMIX IDE with:
pragma solidity ^0.4.21;
contract Coursetro_lab4 {
   string fName;
   uint age;
   event Instructor(
       string name,
       uint age
   );
   function setInstructor(string fName, uint age) public {
       fName = _fName;
       age = _age;
       // To actually use the event, we need to call the event and pass
       // in the submitted name and age within the existing
       // setInstructor() method, like so:
       emit Instructor(_fName, _age);
   }
   function getInstructor() public constant returns (string, uint) {
       return (fName, age);
   }
}
Also create a new .html file with (change to your own address and ABI code):
<!DOCTYPE html>
<html lang="en">
<head>
     <meta charset="UTF-8">
     <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <meta http-equiv="X-UA-Compatible" content="ie=edge">
     <title>Document</title>
     <link rel="stylesheet" type="text/css" href="main_lab4.css">
     <script src="./node_modules/web3/dist/web3.min.js"></script>
</head>
<body>
     <div class="container">
         <h1>Coursetro Instructor</h1>
         <h2 id="instructor">
```

```
<img id="loader" src="https://loading.io/spinners/double-ring/lg.double-ring-spinner.gif">
         </h2>
         <label for="name" class="col-lg-2 control-label">Instructor Name</label>
         <input id="name" type="text">
         <label for="name" class="col-lg-2 control-label">Instructor Age</label>
         <input id="age" type="text">
         <button id="button">Update Instructor</button>
     </div>
     <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
     <script>
    var web3;
    if (typeof web3 !== 'undefined') {
        web3 = new Web3(web3.currentProvider);
    } else {
        // set the provider you want from Web3.providers
        web3 = new Web3(new Web3.providers.HttpProvider("http://localhost:8545"));
        if(!web3.isConnected()) {
               console.log('not-connected');
         } else {
             console.log('connected');
    }
    web3.eth.defaultAccount = web3.eth.accounts[0];
    // var CoursetroContract = web3.eth.contract('PASTE ABI CODE HERE');
    var CoursetroContract = web3.eth.contract([ { "constant": false, "inputs":
           [ { "name": "_fName", "type": "string" }, { "name": "_age", "type":
           "uint256" } ], "name": "setInstructor", "outputs": [], "payable":
           false, "stateMutability": "nonpayable", "type": "function" }, {
           "constant": true, "inputs": [], "name": "getInstructor", "outputs":
           [ { "name": "", "type": "string" }, { "name": "", "type": "uint256" } ],
           "payable": false, "stateMutability": "view", "type": "function" },
           { "anonymous": false, "inputs": [ { "indexed": false, "name": "name",
           "type": "string" }, { "indexed": false, "name": "age", "type":
           "uint256" } ], "name": "Instructor", "type": "event" } ]);
     console.log('created CoursetroContract');
    // var Coursetro = CoursetroContract.at('PASTE CONTRACT ADDRESS HERE');
     console.log('Creating Coursetro');
    var Coursetro = CoursetroContract.at('0xce3a32a54dbb4ff2f26d80fc2261ed4b02292ca2');
     console.log(Coursetro);
// Since we no longer need to call Coursetro.getInstructor(),
// so we're going to remove that.
```

```
//
       Coursetro.getInstructor(function(error, result){
//
          console.log('Inside Coursetro.getInstructor');
//
//
          if (!error)
//
          {
//
              console.log('Inside !error');
//
              $("#instructor").html(result[0]+' ('+result[1]+' years old)');
              console.log(result);
//
//
          }
//
          else
//
              console.log(error);
//
      });
    // Replace the Coursetro.getInstructor() lines by creating an
             instructorEvent
     var instructorEvent = Coursetro.Instructor();
    // Use the .watch() method on instructorEvent with a callback.
     instructorEvent.watch(function(error, result){
        if (!error)
        {
            $("#loader").hide();
            $("#instructor").html(result.args.name
                 + ' (' + result.args.age + ' years old)');
        } else {
            $("#loader").hide();
            console.log(error);
        }
     });
    // var instructorEvent = Coursetro.Instructor({}, {fromBlock: 1, toBlock: 'latest'});
    // instructorEvent.watch(function(error, result){
    //
             alert(1);
    //});
     $("#button").click(function() {
        console.log('Inside click');
        $("#loader").show();
        Coursetro.setInstructor($("#name").val(), $("#age").val());
     });
     </script>
</body>
```

```
Create a .css file for the layout with:
       body {
        background-color:#F0F0F0;
        padding: 2em;
        font-family: 'Raleway', 'Source Sans Pro', 'Arial';
       .container {
        width: 50%;
        margin: 0 auto;
       }
       label {
        display:block;
        margin-bottom:10px;
       input {
        padding:10px;
        width: 50%;
        margin-bottom: 1em;
       button {
        margin: 2em 0;
        padding: 1em 4em;
        display:block;
       #instructor {
        padding:1em;
        background-color:#fff;
        margin: 1em 0;
       #loader {
           width: 100px;
           display:none;
       }
```

In SOLIDITY COMPILER page, click Compile xxx.sol Then we can copy the ABI code

Change the ENVIRONMENT to Web3 Provider in DEPLOY & RUN TRANSACTIONS, Change the Web3 Provider Endpoint to http://localhost:8545, after click Deploy we will get a Deployed Contracts, we click to copy this as our address

If all stuff going right, we enter the data in our .html web page, we can click **getInstructor** to get our input from .html web page

