Assignment 5

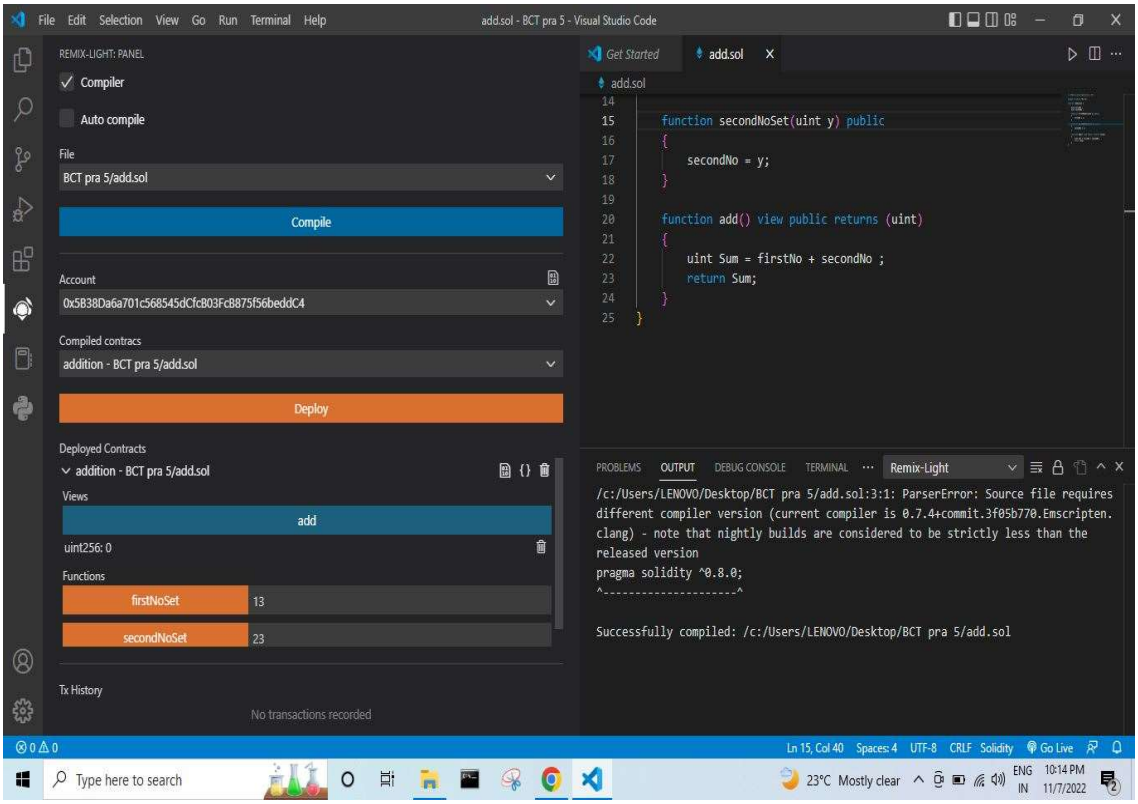
1. **Write a program for Addition, Subtraction and Multiplication and division of two numbers.**

Code:

Add.sol

```
// SPDX-License-Identifier: MIT

pragma solidity ^0.7.4;

contract addition {

   uint firstNo ;
   uint secondNo ;

   function firstNoSet(uint x) public
   {
      firstNo = x;
   }

   function secondNoSet(uint y) public
   {
      secondNo = y;
   }

   function add() view public returns (uint)
   {
      uint Sum = firstNo + secondNo ;
      return Sum;
   }
}
```

Output:



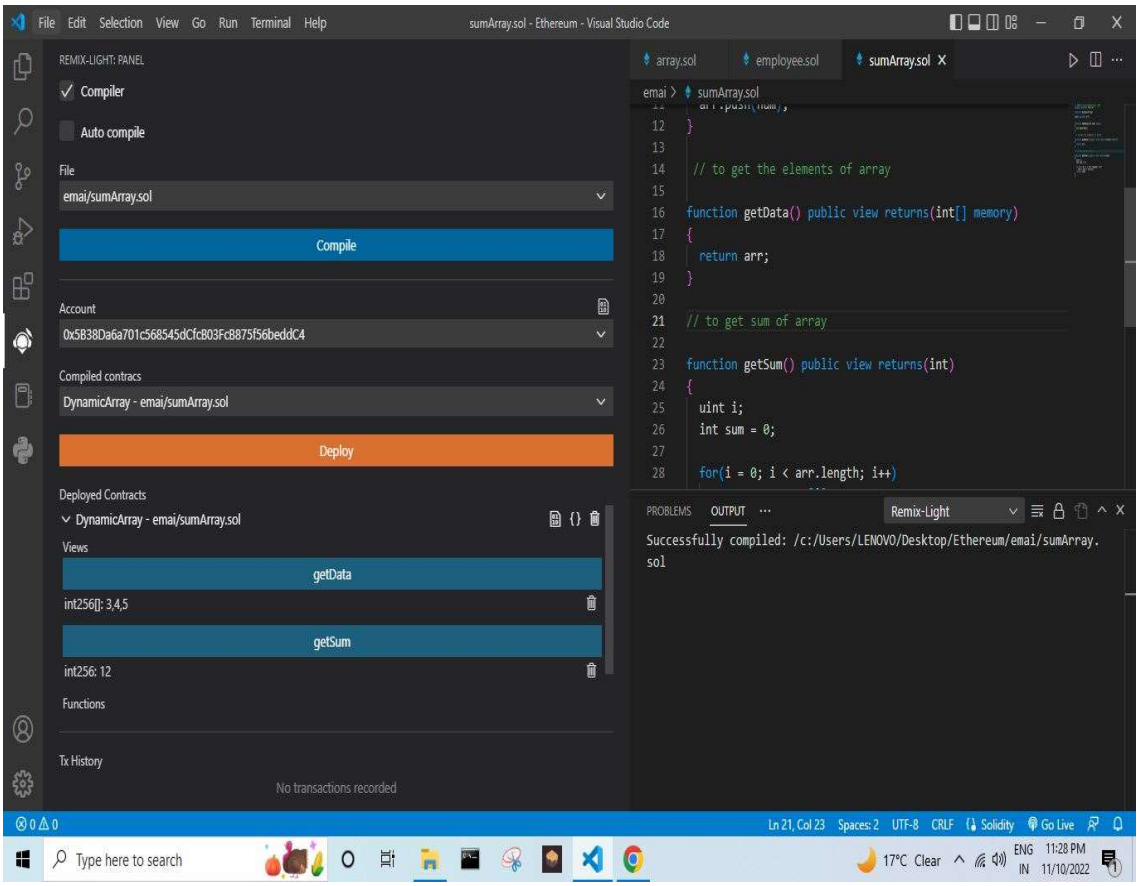
2. **Write a program using array**
   a) **accept and display array elements**
   b) **find addition of all array elements**

Code :

```
pragma solidity ^0.7.4;

contract DynamicArray{

int[] private arr;


function addData(int num) public
{
 arr.push(num);
}

 // to get the elements of array

function getData() public view returns(int[] memory)
```

```
{
 return arr;
}

// to get sum of array

function getSum() public view returns(int)
{
 uint i;
 int sum = 0;

 for(i = 0; i < arr.length; i++)
  sum = sum + arr[i];
 return sum;
}
}
```

Output

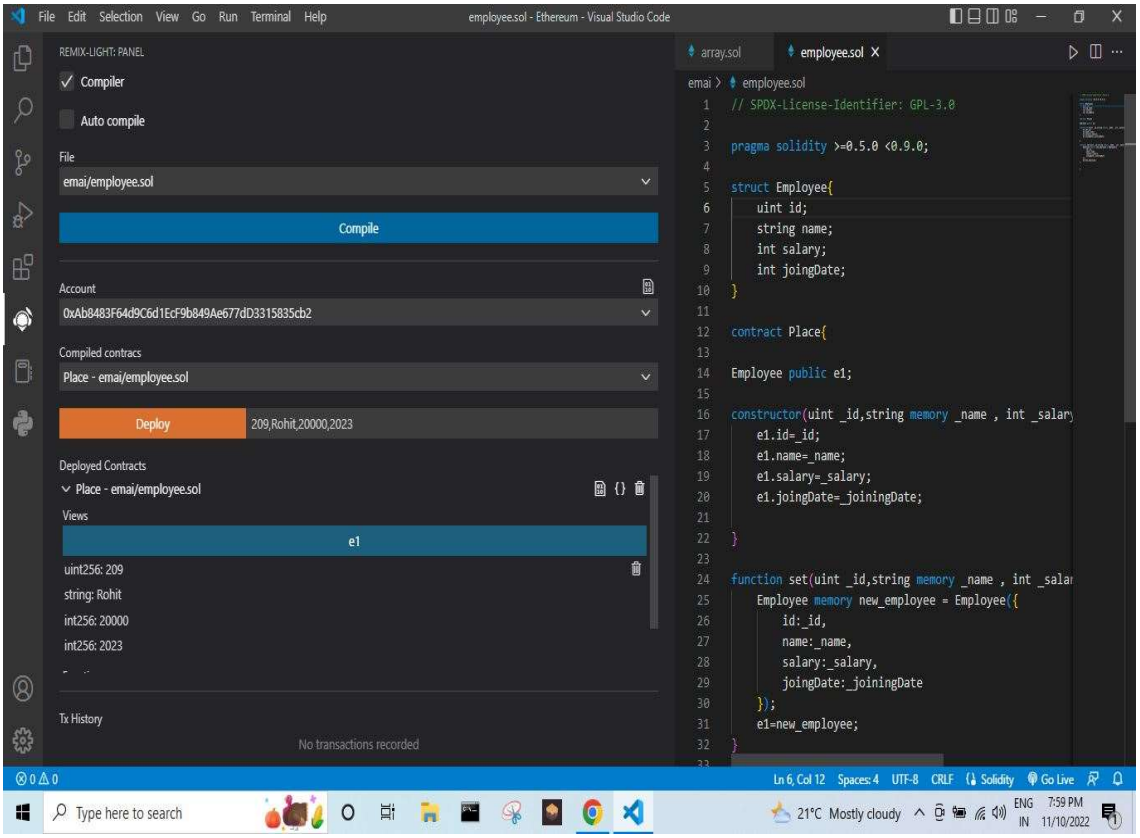


3. write program to display employee details (Id, Name, salary, joining date)

Code:

```
// SPDX-License-Identifier: MIT

Pragma solidity >=0.5.0 <0.9.0;

struct Employee {
   unit id;
   String name;
   Int salary;
   int joingDate;
}
contract Place{
Employee public e1;
constructor(uint _id,string memory _name , int _salary , int _joiningDate){
   e1.id=_id;
   e1.name=_name;
   e1.salary=_salary;
   e1.joingDate=_joiningDate:
}
function set(uint _id,string memory _name , int _salary , int _joiningDate) public{
   Employee memory new_employee = Employee({
      id:_id,
      name:_name,
      salary:_salary,
      joingDate:_joiningDate
   });
   e1=new_employee;
}
}
```

Output:


File Edit Selection View Go Run Terminal Help
employee.sol - Ethereum - Visual Studio Code
REMIX-LIGHT: PANEL
Compiler
Auto compile
File
emai/employee.sol
Compile
Account
0xAb8483F64d9C6d1EcF9b849Ae677dD3315835cb2
Compiled contracts
Place - emai/employee.sol
Deploy
209,Rohit,20000,2023
Deployed Contracts
Place - emai/employee.sol
Views
e1
uint256: 209
string: Rohit
int256: 20000
int256: 2023
Tx History
No transactions recorded
array.sol
employee.sol
emai > employee.sol
// SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.5.0 <0.9.0;
struct Employee{
uint id;
string name;
int salary;
int joingDate;
}
contract Place{
Employee public e1;
constructor(uint _id,string memory _name , int _salary
e1.id=_id;
e1.name=_name;
e1.salary=_salary;
e1.joingDate=_joiningDate;
}
function set(uint _id,string memory _name , int _salar
Employee memory new_employee = Employee({
id:_id,
name:_name,
salary:_salary,
joingDate:_joiningDate
});
e1=new_employee;
}
Ln 6, Col 12 Spaces: 4 UTF-8 CRLF Solidity Go Live
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21°C Mostly cloudy
ENG IN
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