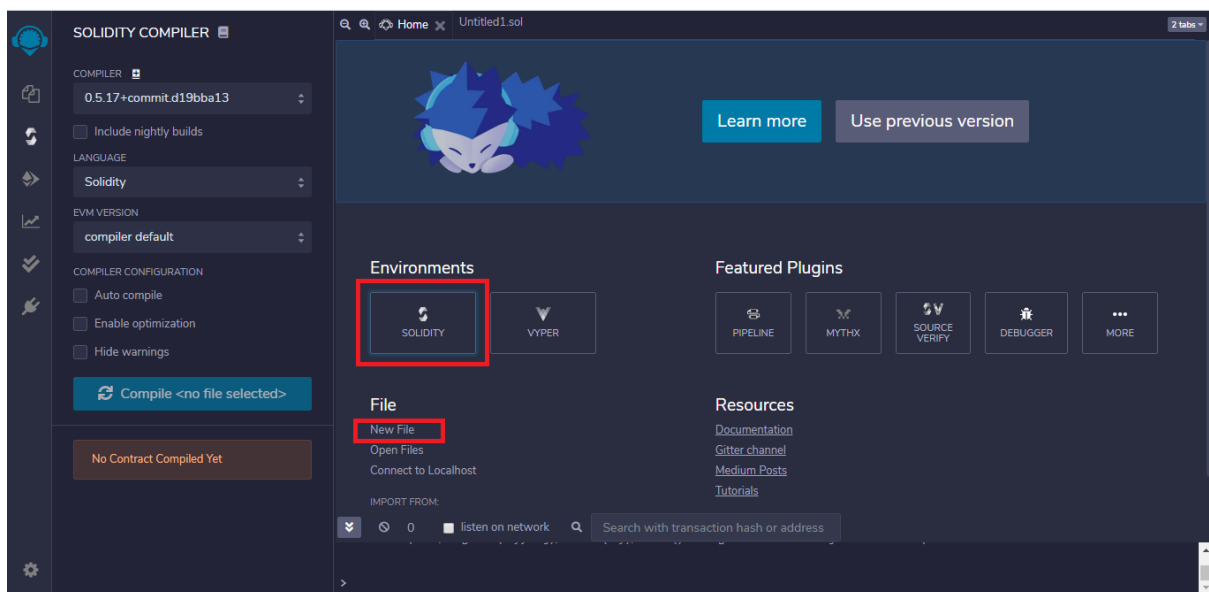


TEAM ID	NM2023TMID04391
PROJECT TITTLE	BLOCKCHAIN POWERED LIBRARY MANAGEMENT

REMIX IDE

- Remix IDE is generally used to compile and run Solidity smart contracts.
- Below are the steps for the compilation, execution, and debugging of the smart contract.

Step 1: Open Remix IDE on any of your browsers, select on New File and click on Solidity to choose the environment.



Step 2: Write the Smart contract in the code section, and click the Compile button under the Compiler window to compile the contract.

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

```
pragma solidity ^0.5.0;
```

```
contract SolidityTest{

    uint a=10;

    uint b=12;

    uint sum;

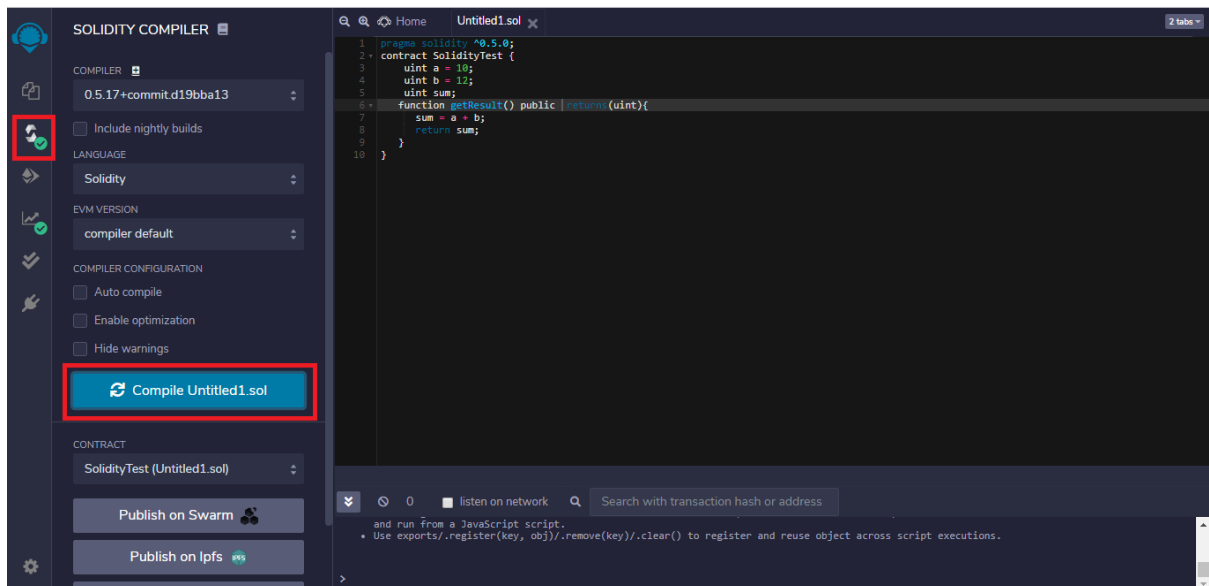
    function getResult() public returns(uint){

        sum=a+b;

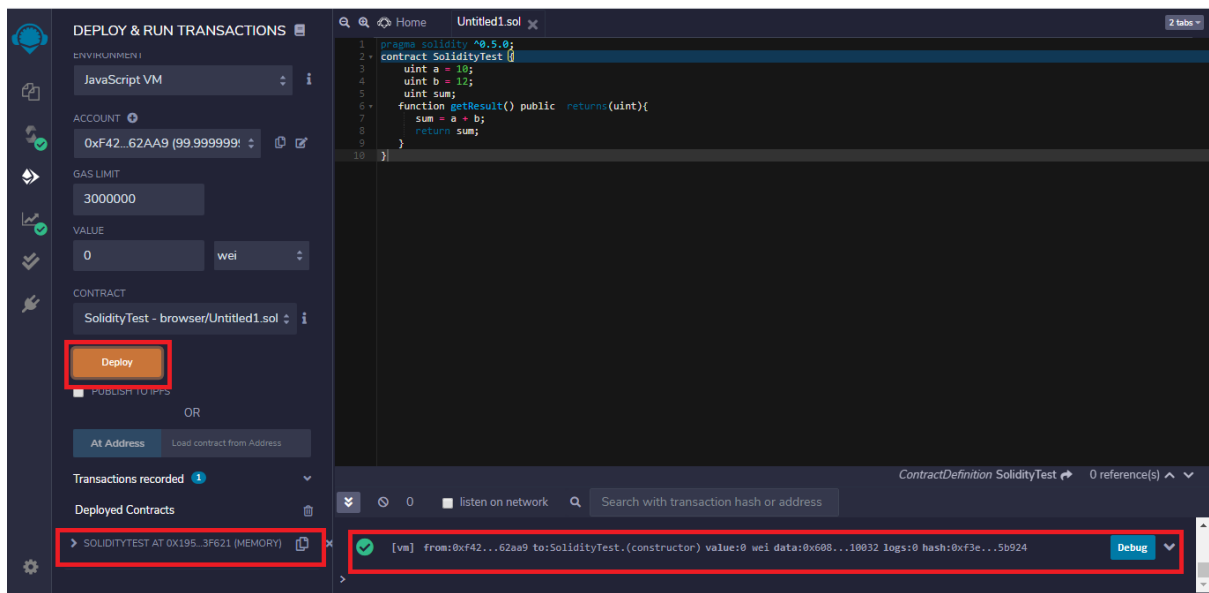
        return sum;

    }

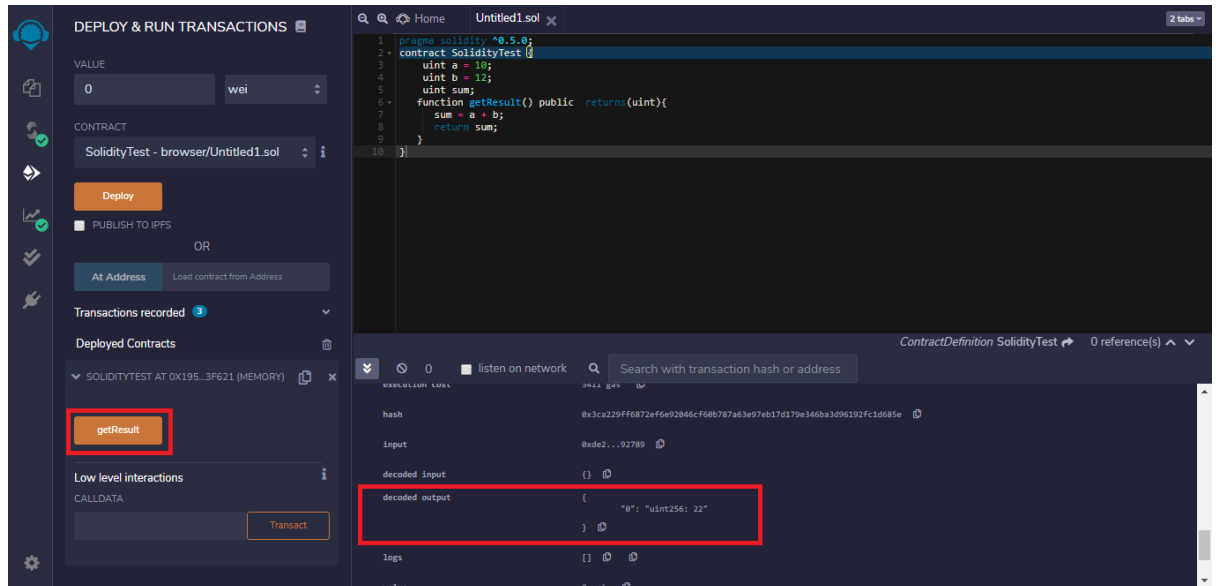
}
```



Step 3: To execute the code, click on the Deploy button under Deploy and Run Transactions window.



Step 4: After deploying the code click on the method calls under the drop-down of deployed contracts to run the program, and for output, check to click on the drop-down on the console.



Step 5: For debugging click on the Debug button corresponding to the method call in the console. Here you can check each function call and variable assignments.

DEBUGGER

loaded address:
0x1955b44a89f2621d0cc1cfe2e50121a8cd73f621

↩

⏮

⏪

⏩

⏭

Solidity Locals

no locals

Solidity State

a: 10 uint256
b: 12 uint256
sum: 22 uint256

Stack

0:
0x00
0000000000000000000000000000000033

1:
0x00
00000000000000000000000000000000e292789

Home Untitled1.sol 2 tabs

```
1 pragma solidity ^0.5.0;
2 contract SolidityTest {
3     uint a = 10;
4     uint b = 12;
5     uint sum;
6     function getResult() public (uint){
7         sum = a + b;
8         return sum;
9     }
10 }
```

0 listen on network Search with transaction hash or address

transact to SolidityTest.getResult pending ...

✓ [vm] from:0xf42...62aa9 to:SolidityTest.getResult() @x195...3f621 value:0 wei data:0xde2...92789 logs:0 hash:0xf74...dbf35

Debug

transact to SolidityTest.getResult pending ...

✓ [vm] from:0xf42...62aa9 to:SolidityTest.getResult() @x195...3f621 value:0 wei data:0xde2...92789 logs:0 hash:0x3ca...d685e

Debug