

Assignment 02

Step 1 : use this solidity code for

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

import "hardhat/console.sol";

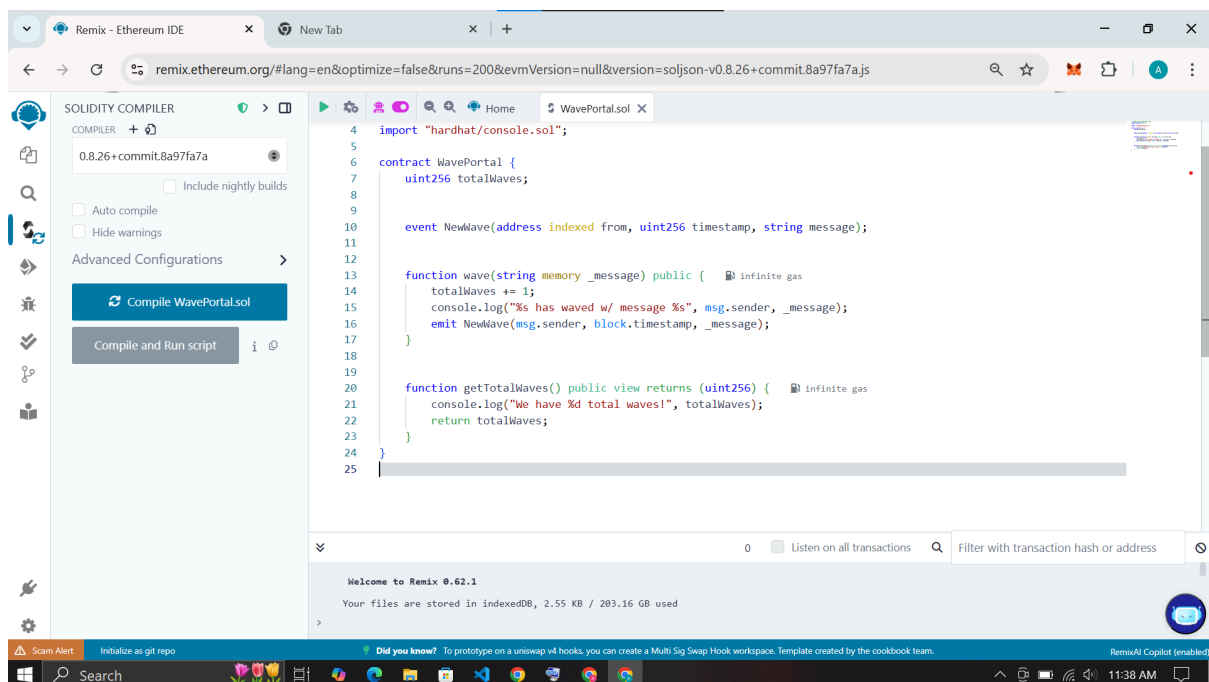
contract WavePortal {
    uint256 totalWaves;

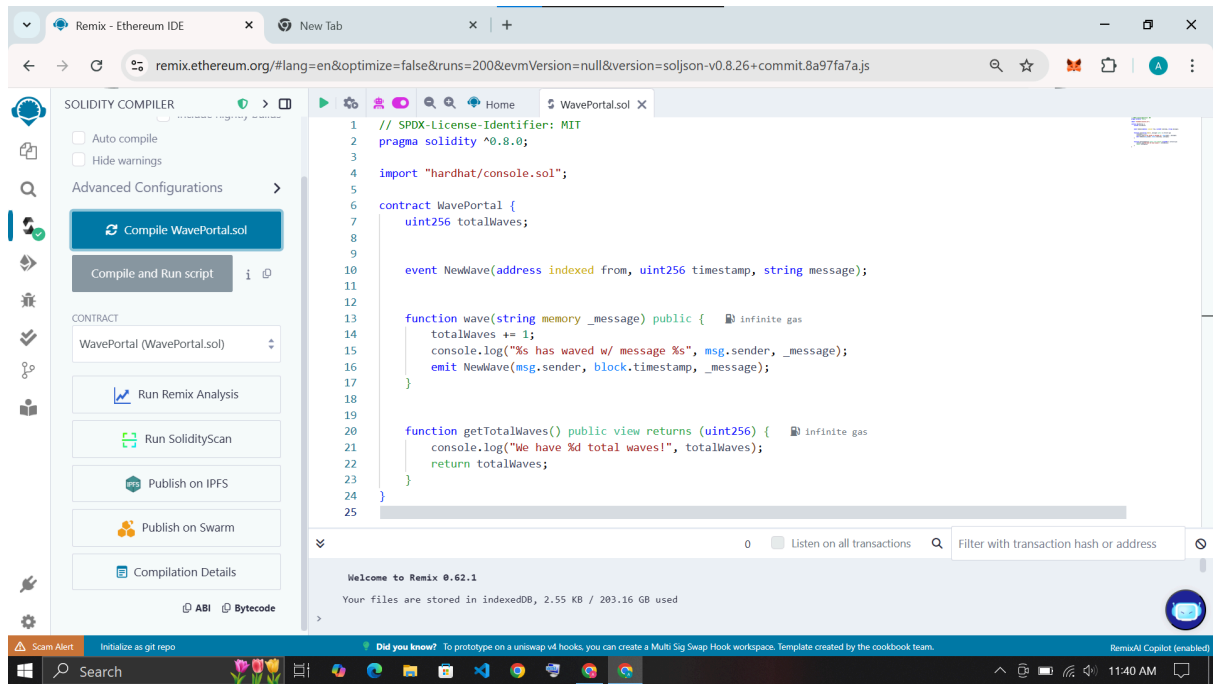
    event NewWave(address indexed from, uint256 timestamp, string message);

    function wave(string memory _message) public {
        totalWaves += 1;
        console.log("%s has waved w/ message %s", msg.sender, _message);
        emit NewWave(msg.sender, block.timestamp, _message);
    }

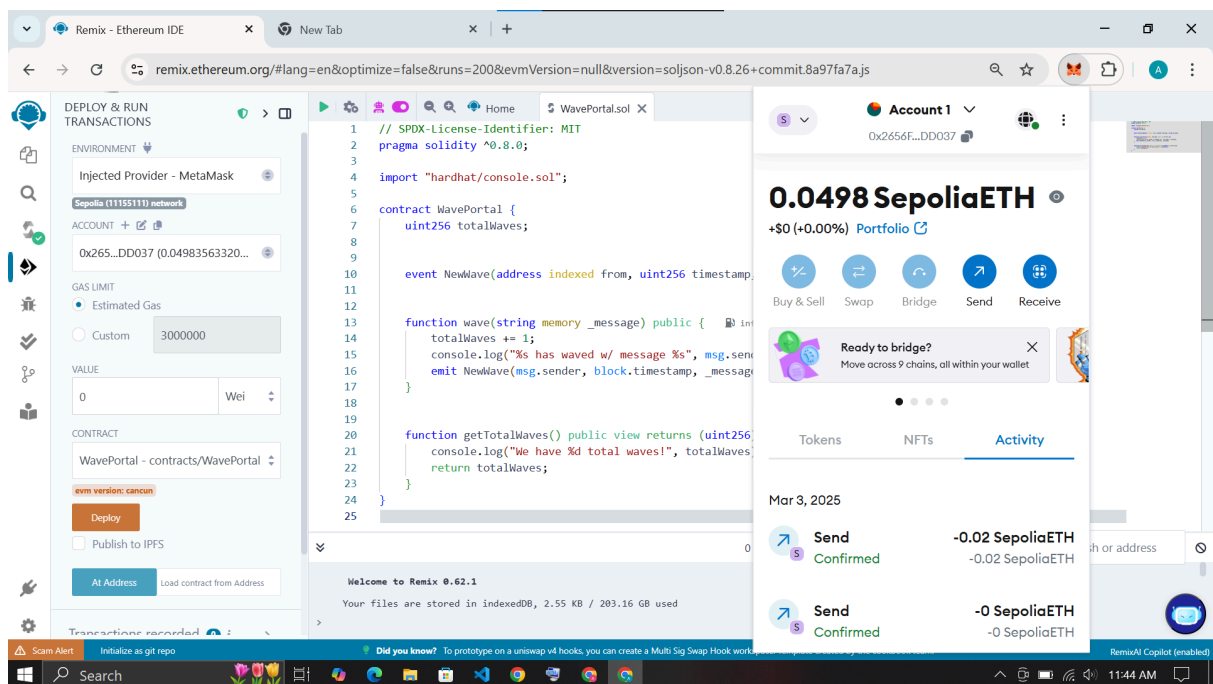
    function getTotalWaves() public view returns (uint256) {
        console.log("We have %d total waves!", totalWaves);
        return totalWaves;
    }
}
```

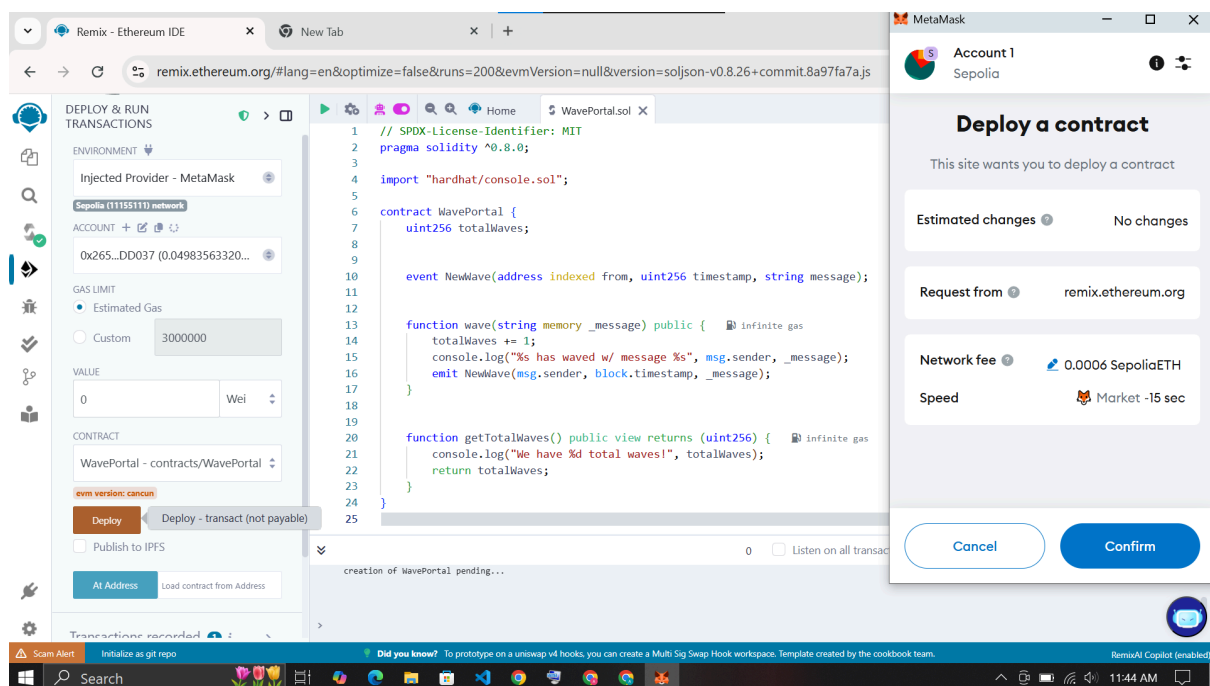
Step 2 : compile it and see the green tick



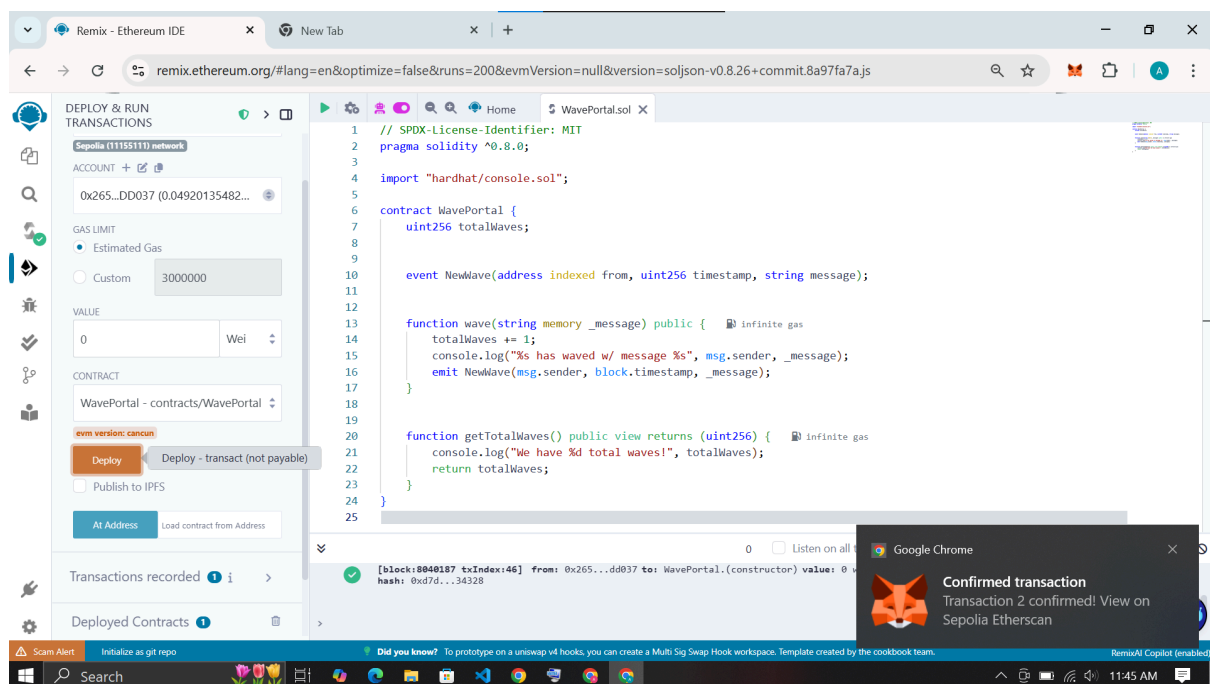


Step 3: navigate to Deploy and Run transaction section in left sidebar
select Environment as ['Injected provider - MetaMask'] and confirm the request





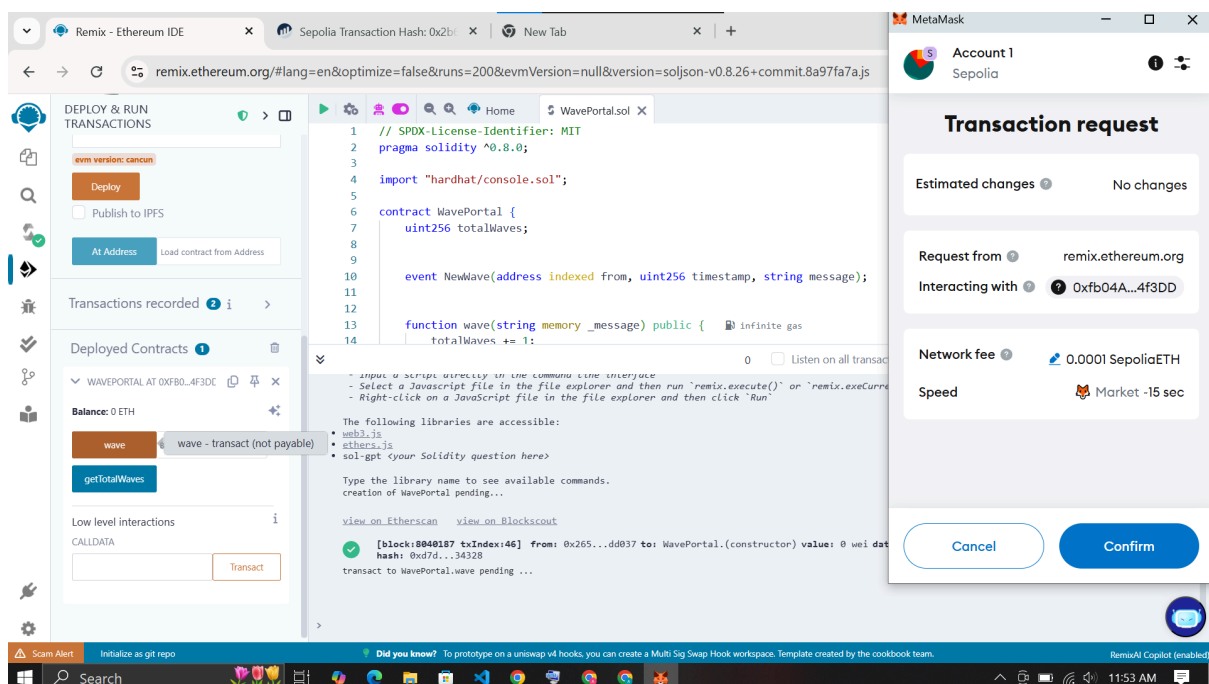
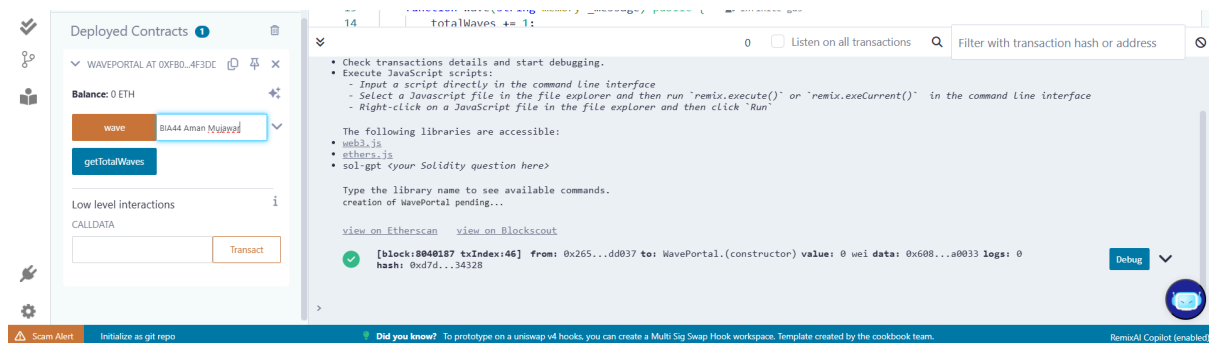
After confirming the request see the confirm transaction pop up.



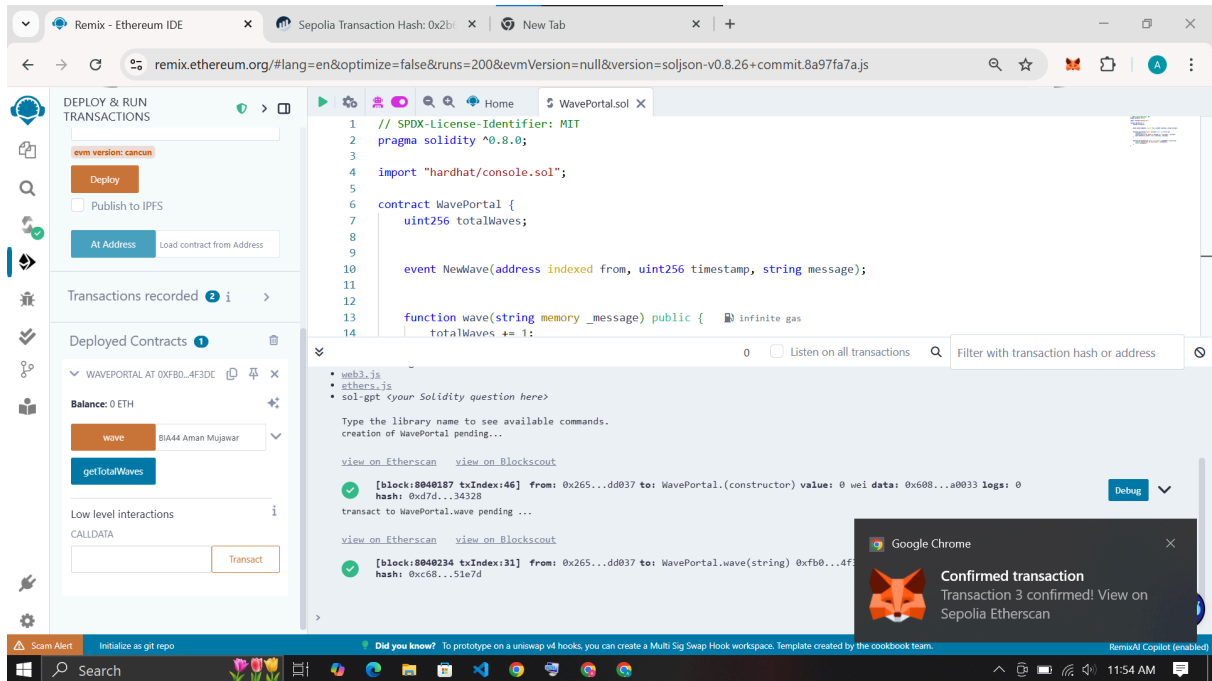
In terminal see the transaction log on ['Etherscan'] or ['Blockscout']



Enter a string value in left side deploy contract input 'BIA44 AmanMujawar' and click on wave and confirm transaction request.



See the confirmation message of transaction



On click 'Blockscout'

Gas 1.5 Gwei

Blockscout DeFi

Sepolia

Blockchain

Tokens

DApps

Charts & stats

API

Other

Merits

Login

Joined recent campaigns? Mint your Merit Badge here

Search by address / txn hash / block / token...

Transaction details

0x26...D037

called 0x449d46c0 on 0xfb...f3DD

2 Explorers

Details

Token transfers

User operations

Internal txns

Logs

State

Raw trace

This is a testnet transaction only

Transaction hash

0x49789cd6388bc8b4af18a86bbc8cae99e09665a4e1a6d5e3da795750b9dd5bca

Status and method

Success 0x449d46c0

Block

8040234 | 10 Block confirmations

Timestamp

2m ago | Apr 03 2025 11:54:48 AM (+05:30 UTC) | Confirmed within <= 12 secs

Sponsored

STOP HOLDING. START EARNING. BRIDGE NOW

From

0x2656F97B606a16c8d516D5C616f08eE7567DD037

Interacted with contract

0xfb04A1053cdE2087EaA7fEbCB6C140e03e64f3DD

Value

0 ETH

Transaction fee

0.00007725458197739 ETH

Gas price

0.00000001501301701 ETH (1.501301701 Gwei)

Gas usage & limit by txn

51,439 | 51,832 99.24%

Gas fees (Gwei)

Base: 0.001301701 | Max: 1.501639947 | Max priority: 1.5

Burnt fees

0.000000066958197739 ETH

Hide details

Other

Txn type: 2 (EIP-1559) | Nonce: 3 | Position: 31

Raw input

UTF-8

D♠F♠ BIA44 Aman Mujawar

On click Etherscan see the data is showing 'BIA44 Aman Mujawar'

Sepolia Testnet

Search by Address / Txn Hash / Block / Token

Etherscan

HomeBlockchainTokensNFTsMore

Transaction Details

OverviewInternal TxnsLogs (1)State

[This is a Sepolia Testnet transaction only]

Transaction Hash:0x49789cd6388bc8b4af18a86bbc8cae99e09665a4e1a6d5e3da795750b9dd5bca

Status:Success

Block:804023455 Block Confirmations

Timestamp:11 mins ago (Apr-03-2025 06:24:48 AM UTC)

Transaction Action:

Call Wave Function by 0x2656f97b...7567DD037 on 0xfb04A105...03e64f3DD

From:0x2656f97B606a16c8d516D5C616f08e7567DD037

To:0xfb04A1053cdE2087Ea7fEbC86C140e03e64f3DD

Value:0 ETH

Transaction Fee:0.000077225458197739 ETH

Gas Price:1.501301701 Gwei (0.000000001501301701 ETH)

Gas Limit & Usage by Txn:51,832 | 51,439 (99.24%)

Gas Fees:Base: 0.001301701 Gwei | Max: 1.501639947 Gwei | Max Priority: 1.5 Gwei

Burnt & Txn Savings Fees:Burnt: 0.000000064958197739 ETH (\$0.00)Txn Savings: 0.000000017399035994 ETH (\$0.00)

Other Attributes:

Txn Type: 2 (EIP-1559)Nonce: 3Position In Block: 31

Input Data:

#	Name	Type	Data
0	_message	string	BIA44 Aman Mujawar

Switch BackView In Decoder

More Details:

Click to show less

A transaction is a cryptographically signed instruction that changes the blockchain state. Block explorers track the details of all transactions in the network. Learn more about transactions in our Knowledge Base.

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Etherscan © 2025 (Sepolia)

Donations: 0x71c765...08976f