# FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Department of Computer Engineering

#### 1. Course , Subject & Experiment Details

Academic Year	2022-23	Estimated Time	02 - Hours
Course & Semester	B.E. (CMPN)- Sem VII	Subject Name & Code	BCT - (CSDC7022)
Chapter No.	04	Chapter Title	Public Blockchain

Practical No:	6
Title:	Transferring Ethers using Ganache
Date of Performance:	12/09/2022
Date of Submission:	19/09/2022
Roll No:	8953
Name of the Student:	Brendan Lucas

### **Evaluation:**

Sr. No	Rubric	Grade
	On time submission	
1	Or completion (2)	
2	Preparedness(2)	
3	Skill (4)	
4	Output (2)	

Signature o	f the Teac	her:
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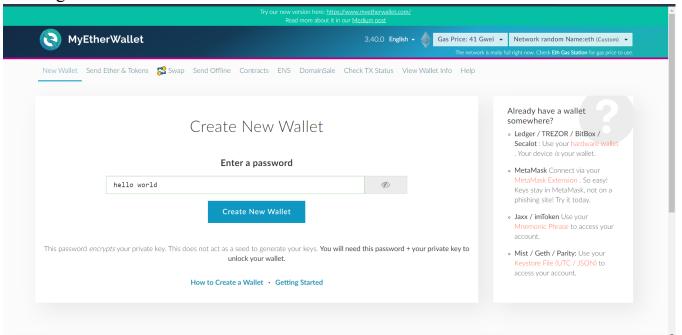
Date:

#### Code:

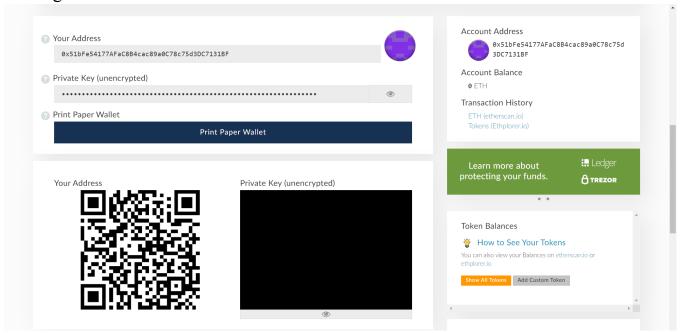
```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.7;
contract ty{
    uint public amount;
    address public sender;
    constructor() payable {
        amount = msg.value;
        sender = msg.sender;
    }
    // constructor () {}
    function dep(address receiver) public{
        // address sender = msg.sender;
        payable(receiver).transfer(amount);
    }
```

## **Output:**

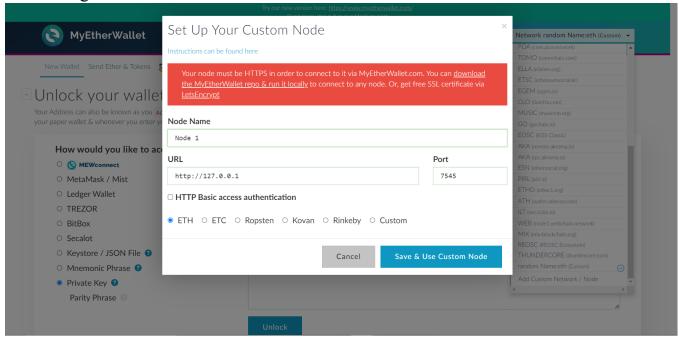
Creating Wallet



### **Printing Wallet:**



#### Connecting to Ganache:



```
Contract Code and ABI:

{

    "functionDebugData": {
        "@_19": {
            "entryPoint": null,
            "id": 19,
            "parameterSlots": 0,
            "returnSlots": 0
        }
    },
    "generatedSources": [],
    "linkReferences": {},
    "object":
```

"opcodes": "PUSH1 0x80 PUSH1 0x40 MSTORE CALLVALUE PUSH1 0x0 DUP2 SWAP1 SSTORE POP CALLER PUSH1 0x1 PUSH1 0x0 PUSH2 0x100 EXP DUP2 SLOAD DUP2 PUSH20

OR SWAP1 SSTORE POP PUSH2 0x23A DUP1 PUSH2 0x5B PUSH1 0x0 CODECOPY PUSH1 0x0 RETURN INVALID PUSH1 0x80 PUSH1 0x40 MSTORE CALLVALUE DUP1 ISZERO PUSH2 0x10 JUMPI PUSH1 0x0 DUP1 REVERT JUMPDEST POP PUSH1 0x4 CALLDATASIZE LT PUSH2 0x41 JUMPI PUSH1 0x0 CALLDATALOAD PUSH1 0xE0 SHR DUP1 PUSH4 0x67E404CE EO PUSH2 0x46 JUMPI DUP1 PUSH4 0xAA8C217C EQ PUSH2 0x64 JUMPI DUP1 PUSH4 0xB733E791 EO PUSH2 0x82 JUMPI JUMPDEST PUSH1 0x0 DUP1 REVERT JUMPDEST PUSH2 0x4E PUSH2 0x9E JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x5B SWAP2 SWAP1 PUSH2 0x176 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0x6C PUSH2 0xC4 JUMP JUMPDEST PUSH1 0x40 MLOAD PUSH2 0x79 SWAP2 SWAP1 PUSH2 0x191 JUMP JUMPDEST PUSH1 0x40 MLOAD DUP1 SWAP2 SUB SWAP1 RETURN JUMPDEST PUSH2 0x9C PUSH1 0x4 DUP1 CALLDATASIZE SUB DUP2 ADD SWAP1 PUSH2 0x97 SWAP2 SWAP1 PUSH2 0x12B JUMP JUMPDEST PUSH2 0xCA JUMP JUMPDEST STOP JUMPDEST PUSH1 0x1 PUSH1 0x0 SWAP1 SLOAD SWAP1 PUSH2 0x100 EXP SWAP1 DIV PUSH20

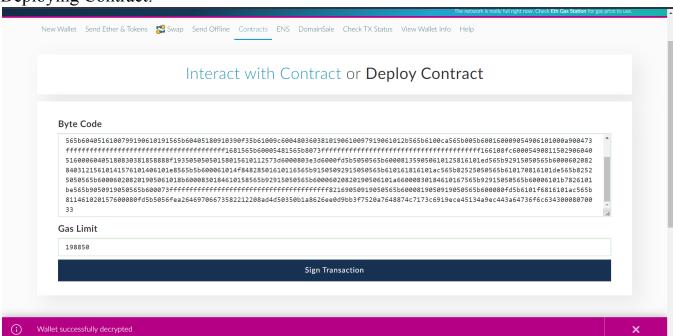
PUSH2 0x116 JUMP JUMPDEST SWAP2 POP POP SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH2 0x161 DUP2 PUSH2 0x1AC JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH2 0x170 DUP2 PUSH2 0x1DE JUMP JUMPDEST DUP3 MSTORE POP POP JUMP JUMPDEST PUSH1 0x0 PUSH1 0x20 DUP3 ADD SWAP1 POP PUSH2 0x18B PUSH1 0x0 DUP4 ADD DUP5 PUSH2 0x158 JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH1 0x0 PUSH1 0x20 DUP3 ADD SWAP1 POP PUSH2 0x1A6 PUSH1 0x0 DUP4 ADD DUP5 PUSH2 0x167 JUMP JUMPDEST SWAP3 SWAP2 POP POP JUMP JUMPDEST PUSH1 0x0 PUSH2 0x1B7 DUP3 PUSH2 0x1BE JUMP JUMPDEST SWAP1 POP SWAP2 SWAP1 POP JUMP JUMPDEST PUSH1 0x0 PUSH2

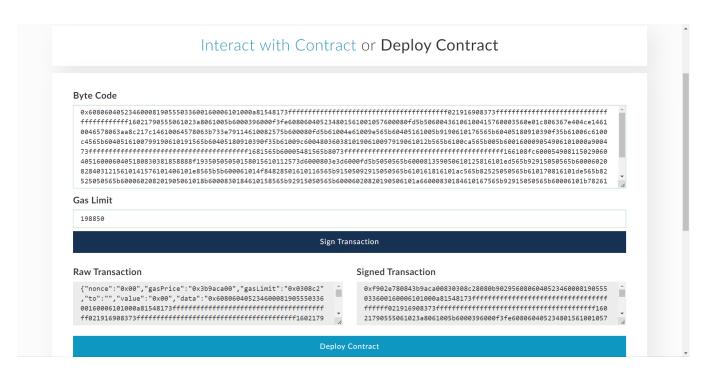
0x20A7648874C7173C6919ECE45134A9EC443A64736F6C PUSH4 0x43000807 STOP CALLER ",

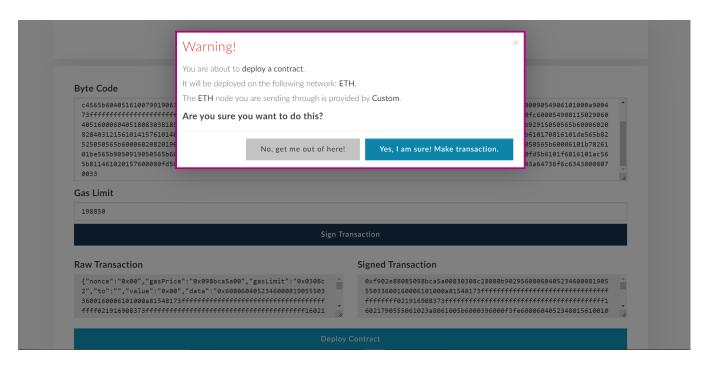
```
},
{
        "inputs": [
                {
                        "internalType": "address",
"name": "receiver",
                        "type": "address"
        "name": "dep",
        "outputs": [],
        "stateMutability": "nonpayable",
        "type": "function"
},
{
        "inputs": [],
        "name": "sender",
        "outputs": [
                        "internalType": "address", "name": "",
                        "type": "address"
       ],
"stateMutability": "view",
"type": "function"
```

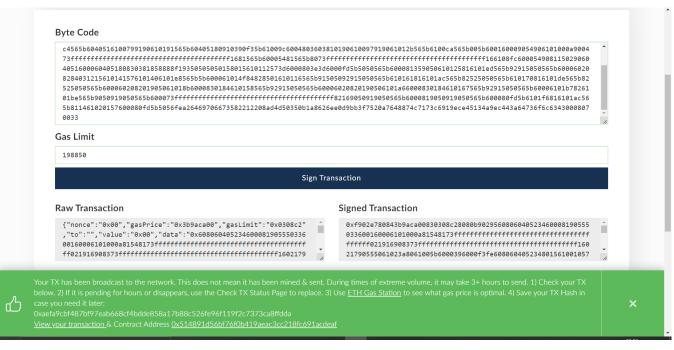
]

#### **Deploying Contract:**

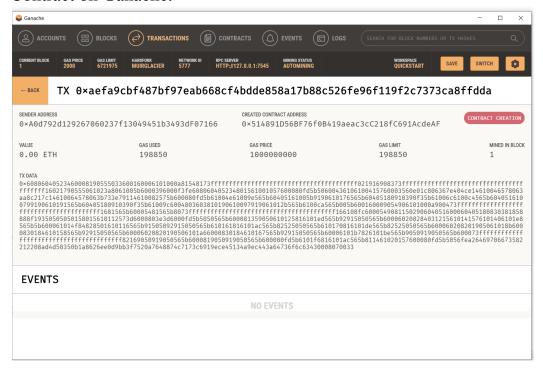




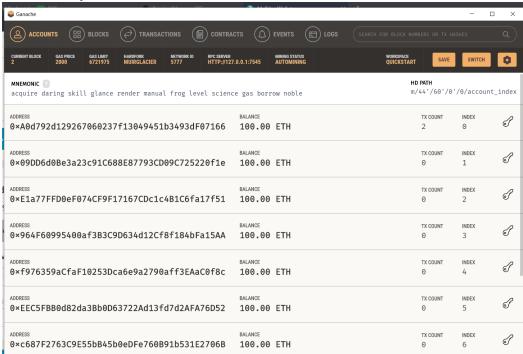




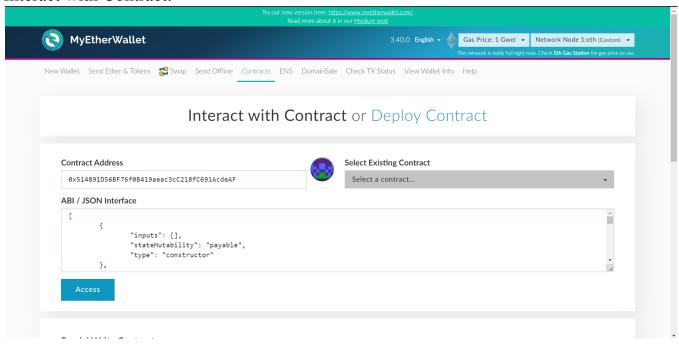
#### Contract on Ganache:

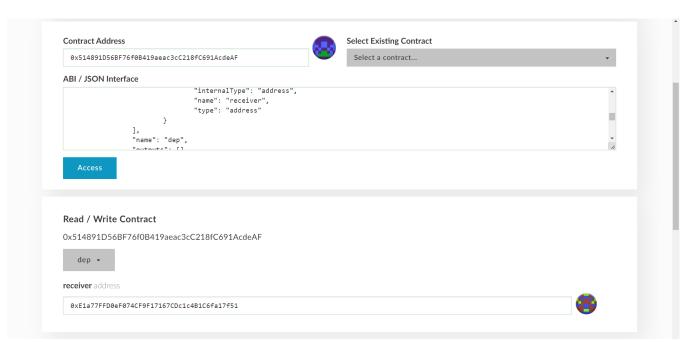


#### Private Key in Ganache:

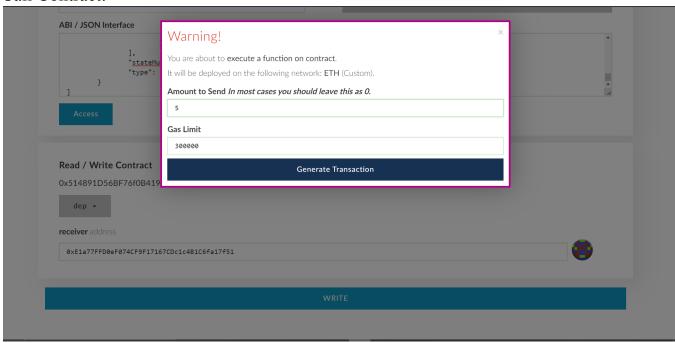


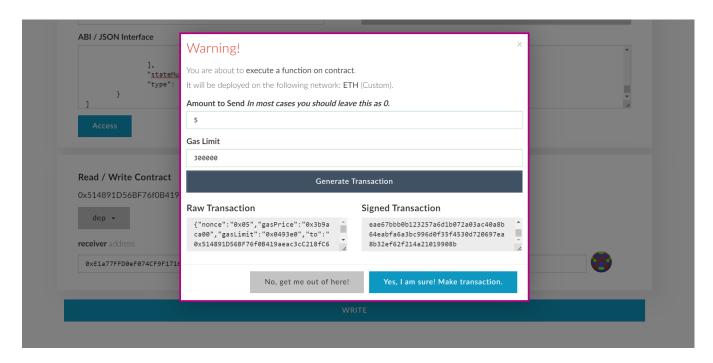
#### Interact with Contract:





#### Call Contract:





## Verify on Ganache BlockChain:

