

practical 4 (output)

The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left displaying the file structure of the project. The main editor area shows the `deploy.py` script being executed. The script creates a contract in Python, gets the latest transaction count, submits the transaction, builds a transaction object, signs it, and prints the signed transaction hash.

```

50 # Create the contract in Python
51 SimpleStorage = w3.eth.contract(abi=abi, bytecode=bytecode)
52 # Get the latest transaction
53 n = w3.eth.getTransactionCount(my_address)
54 # Submit the transaction that deploys the contract
55 transaction = SimpleStorage.constructor().buildTransaction(
56     {
57         "chainId": chain_id,
58         "gasPrice": w3.eth.gas_price,
59         "from": my_address,
60         "nonce": nonce,
61     }
62 )
63 # Sign the transaction
64 signed_txn = w3.eth.account.sign_transaction(transaction, private_key=private_key)
65 print("Deploying Contract!")

```

The terminal output at the bottom shows the execution results:

```

ValueError: {'message': "sender doesn't have enough funds to send tx. The upfront cost is: 7322140000000000 and the sender's account only has: 0", 'code': -32000, 'data': {'stack': ['Error: sender doesn't have enough funds to send tx. The upfront cost is: 7322140000000000 and the sender's account only has: 0\n    at VM.canonize (C:\\Program Files\\WindowsApps\\GanacheUI_2.5.4.0_x64_5d5e5pnz03psnj\\app\\resources\\static\\node_modules\\ganache-core\\node_modules\\ethereumjs-vm\\lib\\vm.js:114:11)\n    at step (C:\\Program Files\\WindowsApps\\GanacheUI_2.5.4.0_x64_5d5e5pnz03psnj\\app\\resources\\static\\node_modules\\ethereumjs-vm\\lib\\vm.js:23:23)\n    at Object.next (C:\\Program Files\\WindowsApps\\GanacheUI_2.5.4.0_x64_5d5e5pnz03psnj\\app\\resources\\static\\node_modules\\ethereumjs-vm\\lib\\vm.js:23:23)\n    at C:\\Program Files\\WindowsApps\\GanacheUI_2.5.4.0_x64_5d5e5pnz03psnj\\app\\resources\\static\\node_modules\\ethereumjs-vm\\lib\\vm.js:23:23\n    at new Promise (<anonymous>)']}}
Waiting for transaction to finish...
Done! Contract deployed to 0x0aeCD751626E2A30588F3364922540bc2baEE7
Initial Stored Value 0
Updating stored Value...
PS C:\Users\st\Downloads\web3_py_simple_storage-main\web3_py_simple_storage-main> python .\deploy.py

```

Ganache

ACCOUNTS

BLOCKS

TRANSACTIONS

CONTRACTS

EVENTS

LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK
2

GAS PRICE
20000000000

GAS LIMIT
6721975

HARDFORK
MUIRGLACIER

NETWORK ID
1337

RPC SERVER
HTTP://127.0.0.1:7545

MINING STATUS
AUTOMINING

WORKSPACE
QUICKSTART

SAVE

SWITCH

MNEMONIC

rocket bullet poem tomato weapon family prosper fetch bacon fuel satoshi citizen

HD PATH

m/44'/60'/0'/0'/account_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0xE61E7521C6c92881d6557A5D8ceE04b395aA504d	99.99 ETH	2	0	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x1AABb8214De959f6114F37b5920C06F7a668426D	100.00 ETH	0	1	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x1a4848d89baeB4dC1AABC8E71b1ED8d00C1f73b0	100.00 ETH	0	2	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x65c4F811cA88bd6c26f4DdFF66890d0d04f869a8	100.00 ETH	0	3	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x6c98057E5884b24D1B42C738bd5c73D92B2Be182	100.00 ETH	0	4	
ADDRESS	BALANCE	TX COUNT	INDEX	
0xcee994A3Fe371cfC34Bd199215eEc3D597f80963	100.00 ETH	0	5	
ADDRESS	BALANCE	TX COUNT	INDEX	
0x5D2fcD3ecA2FBaE43f40A5931EA34cbba6ceb0c6	100.00 ETH	0	6	