FAST UNIVERSITY

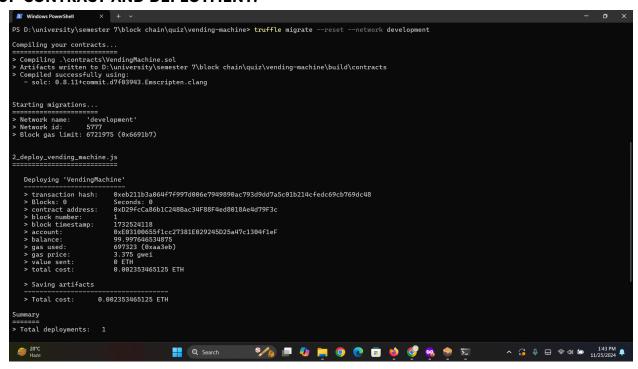


BLOCKCHAIN

Name: Nouman Ahmad

Task: Modify given contract and deploy it on Ganache using truffle and perform transaction, thus so it can be viewed on Ganache logs

SETTING UP CONTRACT AND DEPLOYMENT:

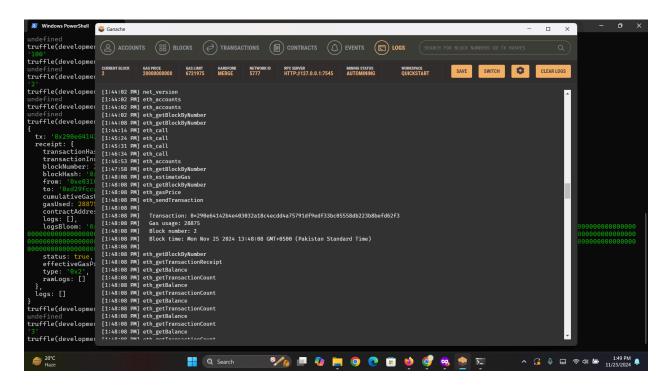


INITIAL BALANCE CHECK:

```
truffle(development)> instance.address
'0xD29fcCa86b1C248Bac34F88F4ed8018Ae4d79F3c'
truffle(development)> await instance.owner()
'0xE03100655f1cc27381E029245D25a47c1304f1eF'
truffle(development)> let balance = await instance.getVendingMachineBalance()
undefined
truffle(development)> balance.toString()
'100'
truffle(development)> let price = await instance.donutPrice()
undefined
truffle(development)> web3.utils.fromWei(price, 'ether')
'2'
truffle(development)> let owner = await instance.owner()
undefined
truffle(development)>
```

Test Price Change Function:(Changing price using modified contract code)

Here we can view if our transaction is successful or not by seeing whether the block was mined or not.(block 1 was mined when we setted up everything).

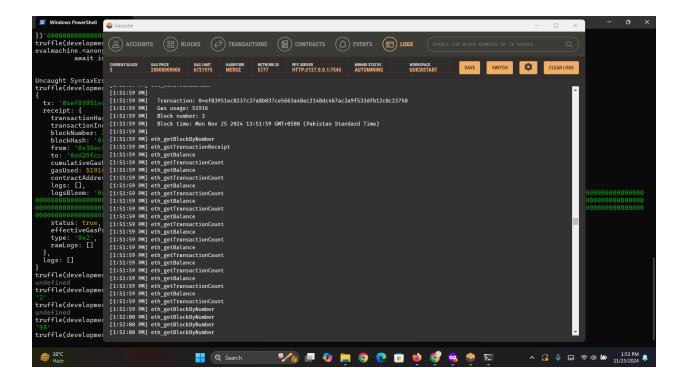


PURCHASING DONUT

Using truffle command line

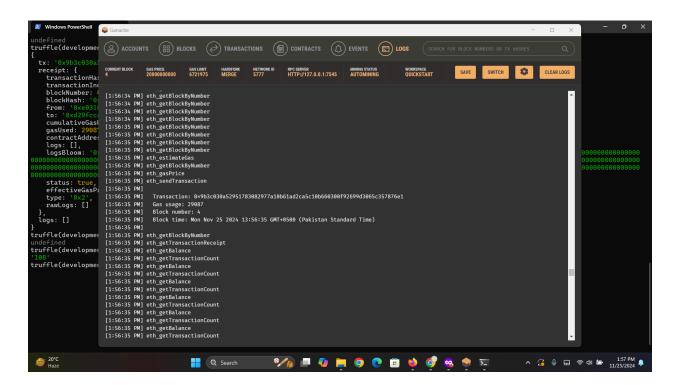
Viewing the logs for potential block mining(as transaction was successful), and our 3rd block was mined

We can also see the gas price as well that was used to mine this block.



Below we are testing the restocking of vending machine transaction(part of the original contract)

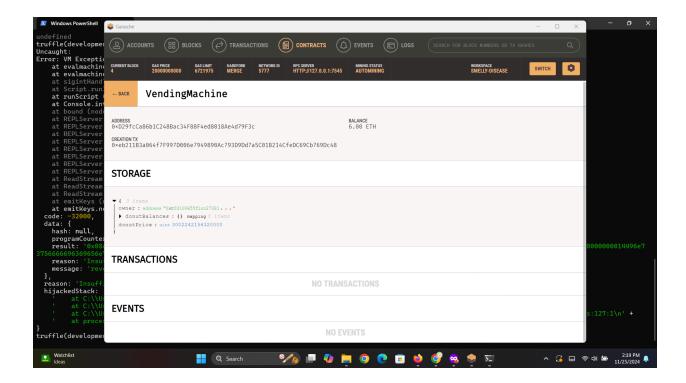
Here we can view our block was mined when the transaction was successful.



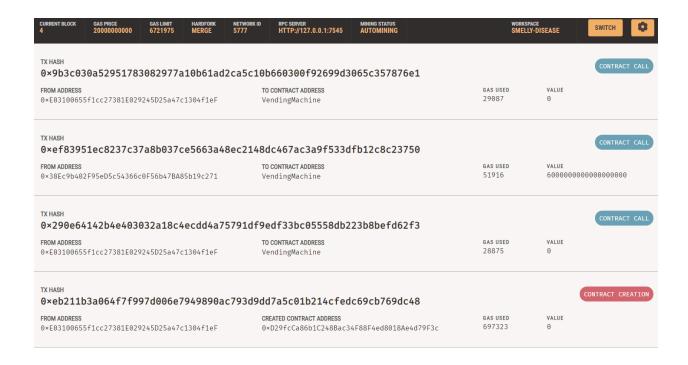
Insufficient balance: here we tested what if we purchase beyond our limit, and we got an error.

And the block was not mined...

Here is the VENDING MACHINE contract viewed in GANACHE.



Here we can view all the blocks that were mine and their gas price.



Here we can see that total number of blocks that were mined for Vending machine contract of ours.

