

Activity 2: Representing transaction

Libraries to install:

- 1.pip install web3
- 2.pip install blockchain

Instructions:

- 1. Create your ganache account
- 2. Link to download ganache https://trufflesuite.com/ganache/
- 3. Ganache gives us fake wallet account address
- 4. Use any 2 account address for the activity
- 5. To get private key

step 1:

ACCOUNTS BLOCKS (2) TRANSACTIONS (3) CONTRACTS (2)	EVENTS DOGS SEARCH FOR BLOCK NU	MBERS OR TX HA	SHES	Q
CURRENT BLOCK GAS PRICE GAS LIMIT HARDFORK NETWORK ID RPC SERVER HTTP://127.0.0.1:7545	MINING STATUS WORKSPACE AUTOMINING QUICKSTART	SAVE	SWITCH	0
MNEMONIC [] poem drink tag water glimpse thrive extra elbow ceiling grit guard s	iix	HD PATH m44'60'	0'0account_	_index Show Keys
ADDRESS BALANCE 100.00	9 ETH	TX COUNT O	INDEX O	S)
ADDRESS BALANCE 0×4f506C13cFFEAADED856a1a679AF0BFA325E49EC 100.00	9 ETH	TX COUNT O	INDEX	F
ADDRESS BALANCE 0×4A0408E73f09d26B366a1D1300F2cb1B5C7bfE12 100.00	Э ЕТН	TX COUNT O	INDEX 2	F
ADDRESS BALANCE 100.00	9 ETH	TX COUNT O	INDEX 3	F
ADDRESS BALANCE 0×0a803f7C14435E8c91b42BcAd7645b3AE824402e 100.00	Э ЕТН	TX COUNT O	INDEX 4	F
ADDRESS BALANCE 0×e0B63f1DC73F5eBfd1173d170D826336f41f8880 BALANCE 100.00	Э ЕТН	TX COUNT O	INDEX	F
ADDRESS BALANCE 9×1374b84A6E59Eb7483722a95D8D6677318D0257A 100.00	э eтн	TX COUNT O	INDEX	F

step 2:



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```
ACCOUNT INFORMATION

ACCOUNT ADDRESS

0 × 0a54769077995543afAc7b810400Ba6A57308b82

PRIVATE KEY

0 × d5cdc54845b7bdfb7180d2d0c851b83b212c4ab5cb2fb4b118ff707b4b6dba
9f
Do not use this private key on a public blockchain; use it for development purposes only!
```

```
from web3 import Web3
w3=Web3(Web3.HTTPProvider("HTTP://127.0.0.1:7545"))
print(w3.is connected())
if w3.is connected():
   print("Transaction Initiated!")
else:
    print("Please open your ganache to see the results")
def balance(address):
   balance=w3.eth.get balance(address)
    balance eth=w3.fromWei(balance, "ether")
    print("The balance of account " + address + " is "
+str(balance eth) +"ether")
#public key of acc1
acc1="0x4295b410e29573fd922787b2431d55482de0d979"
acc1 pk="0x0313b238f94e70f31a3bb3dfdfab782a56041c737f9fb2e49b380973b9d3
```



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```
balance(acc1)
balance(acc2)
#transaction
#step 1
nonce=w3.eth.get_transaction_count(acc1)
tx={
    'value':w3.toWei(10,'ether'),
print(tx)
#step2
signed tx=w3.eth.account.signTransaction(tx,acc1 pk)
#step3
tx hash=w3.eth.sendRawTransaction(signed tx.rawTransaction)
print(w3.toHex(tx hash))
balance(acc1)
balance(acc2)
```