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 1 /Users/anandreddysripathi/PycharmProjects/
   BlockChain/venv/bin/python /Users/
   anandreddysripathi/PycharmProjects/BlockChain/
   mongoBlockchain.py
 2 connection with mongoDB is successful
 3 --------------------------------------------
 4 1:Add a block           6:export blockchain
 5 2:Verify blockchain     7:display CS572 student
 6 3:View blockchain       8:run query
 7 4:corrupt a block       9:terminate program
 8 5:fix corruption
 9
10 Enter a selection: 1
11 1
12 creating block
13 enter block's difficulty2
14 enter block data101
15 enter senderanand
16 enter receivervivek
17 {'sender': 'anand', 'previousHash': '', 'data': 101
   , 'difficulty': 2, 'recipient': 'vivek'}
18 009acc83536228489b30b2fcd76dc575379ae1685638870df2b
   7ce50f726c3c8
19 --------------------------------------------
20 1:Add a block           6:export blockchain
21 2:Verify blockchain     7:display CS572 student
22 3:View blockchain       8:run query
23 4:corrupt a block       9:terminate program
24 5:fix corruption
25
26 Enter a selection: 1
27 1
28 creating block
29 enter block's difficulty3
30 enter block data199
31 enter senderanand
32 enter receivervivek
33 {'sender': 'anand', 'previousHash': '
   009acc83536228489b30b2fcd76dc575379ae1685638870df2b
   7ce50f726c3c8', 'data': 199, 'difficulty': 3, '
   recipient': 'vivek'}
34 00007335dbcac24975ed284a52f73e5d95f9e84d4f29aca5454
   22e923bb29a1c
35 --------------------------------------------
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36 1:Add a block          6:export blockchain
37 2:Verify blockchain    7:display CS572 student
38 3:View blockchain      8:run query
39 4:corrupt a block      9:terminate program
40 5:fix corruption
41
42 Enter a selection: 1
43 1
44 creating block
45 enter block's difficulty2
46 enter block data188
47 enter senderanusha
48 enter receiverradhika
49 {'sender': 'anusha', 'previousHash': '
   00007335dbcac24975ed284a52f73e5d95f9e84d4f29aca5454
   22e923bb29a1c', 'data': 188, 'difficulty': 2, '
   recipient': 'radhika'}
50 00be667146f88a3821c8f135119e61d2efffb9d0d071a8514a9
   4a1a24165934b
51 --------------------------------------------------
52 1:Add a block          6:export blockchain
53 2:Verify blockchain    7:display CS572 student
54 3:View blockchain      8:run query
55 4:corrupt a block      9:terminate program
56 5:fix corruption
57
58 Enter a selection: 1
59 1
60 creating block
61 enter block's difficulty3
62 enter block data250
63 enter sendersneha
64 enter receiverlasya
65 {'sender': 'sneha', 'previousHash': '
   00be667146f88a3821c8f135119e61d2efffb9d0d071a8514a9
   4a1a24165934b', 'data': 250, 'difficulty': 3, '
   recipient': 'lasya'}
66 0002744a6bad5492922d7ba7bec899a1c9dbb776ebb00ad99d8
   12c60ae1bde2d
67 --------------------------------------------------
68 1:Add a block          6:export blockchain
69 2:Verify blockchain    7:display CS572 student
70 3:View blockchain      8:run query
71 4:corrupt a block      9:terminate program
```

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72 5:fix corruption
73
74 Enter a selection: 3
75 3
76 {u'sender': u'anand', u'previousHash': u'', u'data
   ': 101, u'difficulty': 2, u'_id': 1, u'recipient
   ': u'vivek'}
77 {u'sender': u'anand', u'previousHash': u'
   009acc83536228489b30b2fcd76dc575379ae1685638870df2
   b7ce50f726c3c8', u'data': 199, u'difficulty': 3, u
   '_id': 2, u'recipient': u'vivek'}
78 {u'sender': u'anusha', u'previousHash': u'
   00007335dbcac24975ed284a52f73e5d95f9e84d4f29aca545
   422e923bb29a1c', u'data': 188, u'difficulty': 2, u
   '_id': 3, u'recipient': u'radhika'}
79 {u'sender': u'sneha', u'previousHash': u'
   00be667146f88a3821c8f135119e61d2efffb9d0d071a8514a
   94a1a24165934b', u'data': 250, u'difficulty': 3, u
   '_id': 4, u'recipient': u'lasya'}
80
81
82
83 <pymongo.cursor.Cursor object at 0x10f302f90>
84 ----------------------------------------------------
85 1:Add a block          6:export blockchain
86 2:Verify blockchain    7:display CS572 student
87 3:View blockchain      8:run query
88 4:corrupt a block      9:terminate program
89 5:fix corruption
90
91 Enter a selection: 8
92 8
93 return the transactions whose data value is
   greater than 100,receipient is not vivek and
   sorted in descending order of data
94 {u'sender': u'sneha', u'previousHash': u'
   00be667146f88a3821c8f135119e61d2efffb9d0d071a8514a
   94a1a24165934b', u'data': 250, u'difficulty': 3, u
   '_id': 4, u'recipient': u'lasya'}
95 {u'sender': u'anusha', u'previousHash': u'
   00007335dbcac24975ed284a52f73e5d95f9e84d4f29aca545
   422e923bb29a1c', u'data': 188, u'difficulty': 2, u
   '_id': 3, u'recipient': u'radhika'}
96 return the number of transaction returned by each
```

```
 96 sender
 97 {u'num_transactions': 2, u'_id': u'anand'}
 98 {u'num_transactions': 1, u'_id': u'sneha'}
 99 {u'num_transactions': 1, u'_id': u'anusha'}
100 ------------------------------------------
101 1:Add a block          6:export blockchain
102 2:Verify blockchain    7:display CS572 student
103 3:View blockchain      8:run query
104 4:corrupt a block      9:terminate program
105 5:fix corruption
106
107 Enter a selection:
```