1) Part 1:

a. Screenshot of the genesis block

(5 points)

```
cpre331@desktop:~/lab08$ cat genesis.json
 "config": {
     chainId": 331,
    "homesteadBlock": 0,
    "eip150Block": 0,
    "eip155Block": 0,
    "eip158Block": 0
},
"alloc"
          "coinbase"
 "difficulty"
         : "0x2000",
 "extraData"
 "gasLimit"
         : "0x2fefdf",
 "nonce"
         : "0x0000000000000000000331",
 "mixhash"
         "timestamp"
         : "0x00"
```

2) Part 2:

a. Screenshot of bootnode identifier

(5 points)

dccde9 overlap

```
cpre331@desktop:~/lab08$ cat bootnode
enode://e1ed47a5d934e0d21ec4deaddc563d9c445d6ccd5cdae957e122567dccde9
cpre331@desktop:~/lab08$
```

dccde9300d1d27044299fe0b7aa347cc1388cf32861b0d8912aab7758d122853f36e618ee@34.18.12.150:30301

b. Individual node's identifier with Ubuntu desktop's IP address (15 points)

self=enode://e72aeb2179b2f14df7c7ad76817972526e145ed986571fb5e1ec334a f3217d111a65b2c7fbc5120e6f984fae34686ddf2cfc7734c50d1f235484727e8d4e5 b24@73.54.41.1:30303

c. Screenshot of peer node list (10 points)

```
admin.peers
{{
    caps: ["eth/66", "snap/1"],
    enode: "enode: //ebifc31bef6fe1baf2e72e814f6dbd131d16b38ba07dfde5e23abbec082207d906168fee61758f03ac19c2bb4d1e591c13b6cc0d733308de40aa5a02a51bc6b2@34.18.12.150:30303"
id: "d29a22b6bf7272156aabf73d4c016fdad276c35380e2c42820122b3870ea3c507",
    name: "Ceth/v1.10.10-stable-bb74230f/linux-amd64/go1.17.2",
    network: {
        inbound: false,
        localAddress: "73.54.41.1:39768",
        remoteAddress: "73.54.41.1:39768",
        remoteAddress: "34.18.12.150:38303",
        static: true,
        trusted: false
    },
    protocols: {
        eth: {
            difficulty: 19953117069,
            head: "0x78735c867bb05c6719352cf8a85933742b9ee68a2bce17c7424b94bd2a13a1d0",
            version: 06
        },
        snap: {
            version: 0
        }
        snap: {
            version: 1
        }
    }
}
```

- 3) Part 3:
 - a. Screenshot of balance

(5 points)

Passwords: 12345678 Jacob

> eth.getBalance(eth.accounts[0])
30000000000000000000

b. Screenshot of balance two minutes later (5 points)

> eth.getBalance(eth.accounts[0])
9200000000000000000

- 4) Part 4:
 - a. Screenshot of transaction

(10 points)

```
> eth.getTransaction("0x5dbf5a34906695ce560186da0462d4d52bf60a81c19d300e42f866c7ff5d9cb1")
{
    blockHash: "0xabb04d450f76b0bdbf75d04083c2843dba2bf5723f9415ab076a836297e9e6cf",
    blockNumber: 251,
    from: "0xae5c722e31ecf887206b5eed4cfa85fa6aba7d7b",
    gas: 21000,
    gasPrice: 1000000000,
    hash: "0x5dbf5a34906695ce560186da0462d4d52bf60a81c19d300e42f866c7ff5d9cb1",
    input: "0x",
    nonce: 0,
    r: "0xaf3415fa52b581d8719e2b59aeb240b16ada0318129085d4d225a667de73fa7f",
    s: "0x2ebca8cb705ad56495fb4dd7b4b62b921c612dfb1280dd27b45ab763e77818f6",
    to: "0x4aa2ed3e7909f9d56e051e3582050951f5d363bd",
    transactionIndex: 0,
    type: "0x0",
    v: "0x2ba",
    value: 1000000
}
```

b. Screenshot of transaction block

(5 points)

c. Screenshot of "final" balance after transactions (10 points)

```
> eth.getBalance(eth.accounts[0])
1.884999999999999e+21
> eth.getBalance(eth.accounts[1])
1000000
```

d. How many US dollars would this translate to?

(10 points) 1000000 -> \$3777470000.00

- 5) Part 5:
 - a. Screenshot of latest block number (10 points)

> eth.blockNumber 448

b. Screenshot of minedBlocks output (10 points)

448 - 1 all of them

