Activity Day - Ethereum Client Installation

Done by: Gokul G CB.EN.P2CYS20017

```
"config": {
               "chainId": 5777,
              "homesteadBlock": 0,
              "eip150Block": 0,
"eip155Block": 0,
  3
  5
               "eip158Block": 0,
  6
               "byzantiumBlock": 0,
               "constantinopleBlock": 0,
  8
               "petersburgBlock": 0,
               "ethash": {}
  9
         },
"gasLimit": "0x47b760",
"difficulty": "0x44",
 10
 11
 12
 13
 14 }
<ftware/custom/geth/genesis.json" [noeol] 16L, 342C</pre>
                                                                                              All
```

Figure 1 Configuration file content which defines genesis block

```
okul ~/Software/custom/geth
  tree .
   - COPYING
                  - 000001.log
                   CURRENT
                 LOCK
                 - LOG
                  - MANIFEST-000000
                  - 000001.log

    CURRENT

                  LOCK
                  - LOG
               MANIFEST-000000
             - LOCK
          nodekey
         keystore UTC--2021-09-23T14-03-03.858401619Z--4478a36f538816ee718d48c1d17cf2deddd55f46 UTC--2021-09-23T14-03-03.858401619Z--4478a36f538816ee718d48c1d17cf2deddd55f46
    genesis.json
    geth
5 directories, 16 files
gokul ~/Software/custom/geth
```

Figure 2 File structure of client

Figure 3 Creating new account

```
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5. //geth --identity *ABC* --networkid "5777" --datadir "data" --http --http.port "8545" --unlock "0" --http.corsdomain "*" --http.api "miner,eth,net,web3,personal" --allow-in secure-unlock --nodiscover --miner.etherbase "0"

1076 (89-23) 19-383-99.223] Shartcard socket not found, disabling or =-stat //mu/pcscd/pcscd.com: no such file or directory"

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1070 (89-23) 19-383-99.223] Shartcard socket not found the control of the
```

Figure 4 Starting the node ABC and logging in with password

Figure 5 attaching geth.ipc socket to start mining

Figure 6 CPU getting tasked due to mining process

Figure 7 mining blocks