



Git link: <https://github.com/Mukandangalo/Crypto-Tutorials>

Practical 2

1. Generating an account

```

TERMINAL  PROBLEMS  OUTPUT  PORTS  DEBUG CONSOLE

PS C:\Users\mmbkhu001\Documents\MPHIL\Crypto\tut a1> & C:/Users/mmbkhu001/AppData/Local/Microsoft/WindowsApps/python3.11.exe c:/Users/mmbkhu001/Documents
/MPHIL/Crypto/tuts/generate_account.py
My private key is: 6WJ60KVRX6D32eL6t033Rd/vr7P0U9y4iQGP7qmpov2FHS/Q9Ep3EHxDH3Lazfp6L450Cbj6QhX1SmxOVHCbug==
My public address is: QUOS7UHLJ3RA7CD05ZNVTP2PIX45AJXD5EEFPVJWE4V0Q65H20F2EI
My Mnemonic phrase is: frog trumpet outdoor begin salt gym soft tissue palm replace winner violin text typical pitch fault breeze cheap liar trophy fati
gue price unfair abstract venue
The address is valid!

```

2. Transferring funds

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PS C:\Users\mmbkhu001\Documents\MPHIL\Crypto\tut a1> & C:/Users/mmbkhu001/AppData/Local/Microsoft/WindowsApps/python3.11.exe c:/Users/mmbkhu001/Documents
/MPHIL/Crypto/vac/transaction_api.py
Address: FR53DPMWJICJ2TK24Q44FCRBNPUQ2R3BXURDWW3MLPC655S0CVPDVLVLU
Successfully submitted transaction with txid: NSUKHXFHOHSL527ESVZRT6QT05HHZPQ7VWNNMMX4S73P3VUPRQ
Transaction information: {
  "confirmed-round": 41029431,
  "pool-error": "",
  "txn": {
    "sig": "C9FIPVrF3UGGZSocVp0A1j09/QrthY0ArWwXmmrLd8pHDeYb0CPRY6t/GkIviU8owG3Nt/MgC8gEVW2QtT6BQ==",
    "txin": {
      "amt": 1000000,
      "fee": 1000,
      "fv": 41029429,
      "gen": "testnet-v1.0",
      "gh": "SG01GKSzyE7IEPItTxByw9x8FmmrCDexi9/cOUJ0iI=",
      "lv": 41030429,
      "note": "TXkgbg9hbibiYxhbmNl",
      "rcv": "FR53DPMWJICJ2TK24Q44FCRBNPUQ2R3BXURDWW3MLPC655S0CVPDVLVLU",
      "snd": "FR53DPMWJICJ2TK24Q44FCRBNPUQ2R3BXURDWW3MLPC655S0CVPDVLVLU",
      "type": "pay"
    }
  }
}
Decoded note: b'My loan balance'

```

3. Creating NFT

```

PS C:\Users\mmbkhu001\Documents\MPHIL\Crypto\tut a1> & C:/Users/mmbkhu001/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/mmbkhu001/Document
s/MPHIL/Crypto/Assignment 1/tutorials/create_nft-1 (1).py"
Address: 5J3AHRJ0JLQCZ7U1LQJSEGJ2U4S127MHY3VTDUFQY5JYINF4UMONH2Y
Sent asset create transaction with txid: TC5RRSLCEG2I6SF86EOKIS3GM77SOTA4QUCIMMR67UPZRRTQ3UFA
Result confirmed in round: 41029553
Asset ID created: 682200640
Asset Name: Digital Dollar
Asset params: ['clawback', 'creator', 'decimals', 'default-frozen', 'freeze', 'manager', 'name', 'name-b64', 'reserve', 'total', 'unit-name', 'unit-name-
b64', 'url', 'url-b64']
Sent opt in transaction with txid: GO4HIE2K474WC6PZRUB6QGEH4QGZMIE7RA53U67HR56UDEN7Q3Q
Result confirmed in round: 41029555
Sent transfer transaction with txid: 32V42JTZW7ROBILMMLZCJTF5CXRA0JHNL6O66DH25CEJ77DYA2LQ
Result confirmed in round: 41029558
PS C:\Users\mmbkhu001\Documents\MPHIL\Crypto\tut a1>

```