KS, 8/30/2020

Dependencies: The following 3 SW libraries are already installed on this laptop as part of class work

* PHP
* Bit (Python Bitcoin library)
* Web3 (Python Ethereum Library)

Repo Folder: C:\Users\kscho\Documents\github\_files\Unit19\_Blockchain\_Python

Create a new folder and name it as – wallet

Step-1: Open GitBash and run the following commands:

* cd C:/Users/kscho/Documents/github\_files/Unit19\_Blockchain\_Python/wallet
* git clone https://github.com/dan-da/hd-wallet-derive
* cd hd-wallet-derive
* php -r "readfile('https://getcomposer.org/installer');" | php
* php -d pcre.jit=0 composer.phar install

Create sumlink – derive in the parent folder (wallet)

* cd . (go to parent folder)
* ln -s hd-wallet-derive/hd-wallet-derive.php derive

Step-2: Generate Mnemonic

* Generate mnemonic with 12 words from <https://iancoleman.io/bip39/>

**BIP39 Mnemonic**

crazy kitten zoo also rack load praise between decrease fringe opinion erosion

**BIP39 Seed:**

31e192d24866b0652d4b351389f63f7f1cc751f5e37e3c642820bbe7bf417e5c711ee9f4306032eac27cc963982e23a5a1e2e123e1a1b3357dc6434378a49f3a

Coin: Bit Coin

**BIP32 Root Key**

xprv9s21ZrQH143K3VmAQB2yu9KFkKRduE6E4qcEYX5pBJJFm7F3dpe6rppEJQFM9fv5nx4ZtM8scoDoMRBwj5ugb9RUDjZR1zv1FhJCs88FnkW

Step-3: Add the above mnemonic words to the .env file

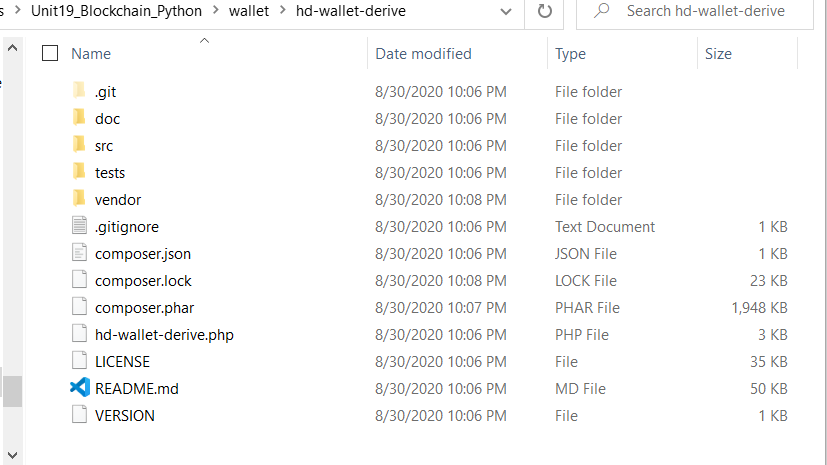
MNEMONIC="crazy kitten zoo also rack load praise between decrease fringe opinion erosion"

Step-4: Develop code in constants.py

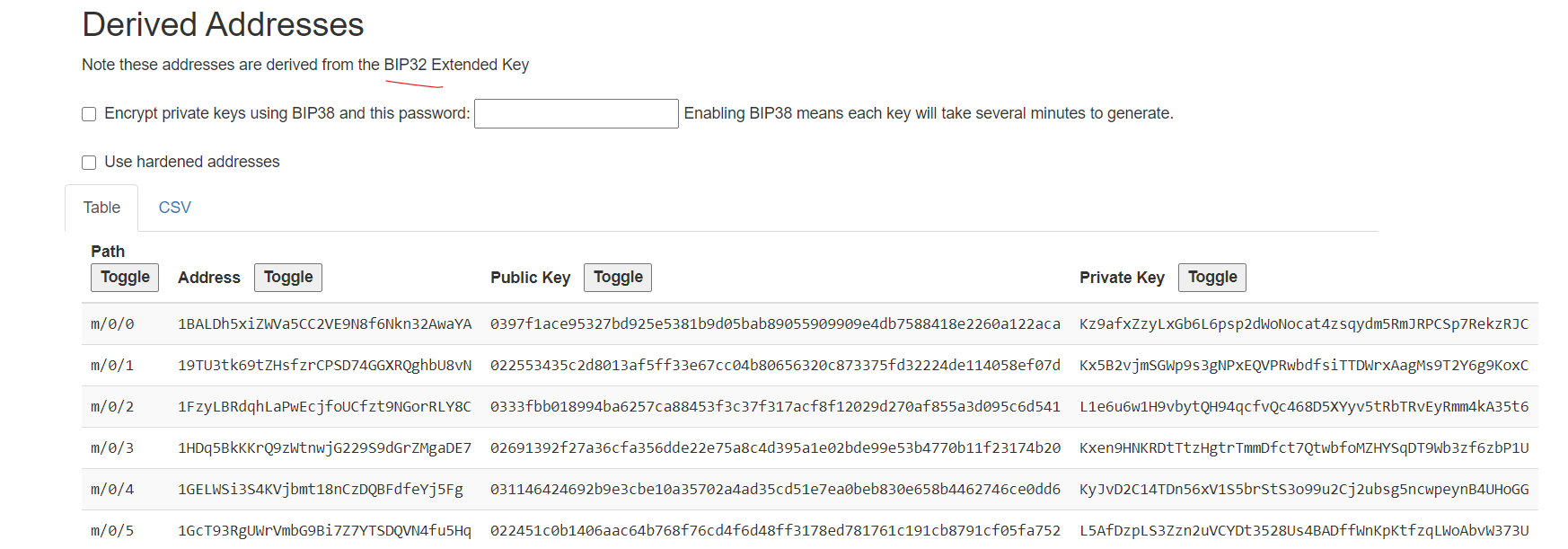
Step-5: Develop code in wallet.py

Annexure-1 (Screenshots)

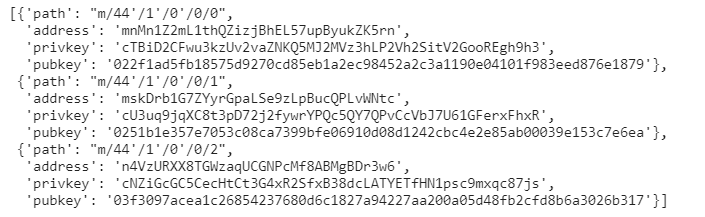
Pic showing the Folder Contents of ‘\*wallet/hd-wallet-derive’



Pic showing BIP32 Addresses:



Pic showing Cointype = ‘btc-test’ Details:



Pic showing Cointype = ‘eth’ Details:

