Revision 1: Instruction Manual Maintain_Nodes helper script.

Pre-requisites: Androids/Raspberry Pi's have Neng coin wallets fully installed + synced and have an instance of ./nengcoind + cheetah_cpuminer script running in their respective screens.

Step 1. Copy Maintain_Nodes.sh into the installed NENG directory.

Step 2. Edit the script file prior to running it. This is what the script should look like.

```
1   ##This script is currently set to be run strictly in the NENG Directory where ./nengcoind is located at
2   ##
3   ##Pseudo Code: While(Ctrl-C not entered)
4   ##
5   ##                    SLEEP SET TO 4 HOURS where 3600 seconds = 1 hour, can be adjusted on line 13.
6   ##                    Arbitrarily set to 70% of wallet to be sent, can be adjusted on line 16.
7   ##                    TODO: 1.Fix current bug that prevents proper updating of balance after sending funds.
8   ##                    TODO: 2.Implement output to logfile with additional statistics.
9   WALLET_ADDRESS="Place recepient wallet address here"
10  while :
11  do
12          echo "To quit press Ctrl-C"
13          sleep 14400
14          read -r -d '' BALANCE_AMOUNT < <(./nengcoind getbalance)
15          echo "Balance Amount Pre-Transfer: $BALANCE_AMOUNT"
16          read -r -d '' BALANCE_MINUS_FEES < <(bc <<< "$BALANCE_AMOUNT * .7")
17          ./nengcoind sendtoaddress "$WALLET_ADDRESS" "$BALANCE_MINUS_FEES"
18          date +"Time Statistics: %m/%d/%Y Time: %H.%M.%S"
19          echo "Balance Amount Post-transfer: $BALANCE_AMOUNT"
20  done
21  exit 0
```

In line 9: Replace everything in the double quotes after WALLET_ADDRESS= with the actual wallet address you want to auto-send coins.

```
9    WALLET_ADDRESS="Place recepient wallet address here"
```

In line 13: Set the timer based on how often you want to send the coins from the current node. For example: Sleep 3600 allows a wait time of 1 hour before sending all the coins outbound.

```
13              sleep 14400
```

In line 16: Set the amount of coin you want to send outbound. On default it sends out 70% but you can adjust it to any percentage you want.

```
16          read -r -d '' BALANCE_MINUS_FEES < <(bc <<< "$BALANCE_AMOUNT * .7"
```

Optional for Windows Users: Step 3. Make sure the file is in Unix format in the case that you made the edit and saved in windows. In the Linux terminal of the node you are setting up type: **vi Maintain_Nodes.sh**. Then press the **Esc** button and type **:set ff?** to see the file format. **If type is DOS** press the **Esc** and type **:set ff=unix** and **press Enter** to change the file type. To **save and quit** press **Esc** and type **:wq** and **press Enter**.

Step 4. Run the script in one of the screens open in Linux terminal. In the nengcoin directory type: bash Maintain_Nodes.sh

Step 5. Rinse and Repeat to any number of cellphone nodes you want to deploy.

Note:

- One way to implement this auto transfer script is to have the cellphones transfer funds every hour to a master node. In my case I have a raspberry pi accepting the funds which transfers them out every 4 hours.
- It is **important** to make sure **./nengcoind** and **cheetah_cpuminer script** is running. Check using **top** command in an available screen.
- Bash scripts are very finicky about the spaces/indents so any errors that come up may be associated with an accidental space somewhere.

//Next revision will include additional pictures for Linux/Windows terminal access steps.//