PROJECT REPORT

Group Members:

1. Shivaditya Jatar - UF ID: 6203 9241 2. Ayush Mittal - UF ID: 3777 8171

We are showing the following items in output:

- 1. Bitcoins Mined along with total bitcoins mined
- 2. Transaction Information (Transaction id, Sender Address, Receiver Address, Timestamp, Status, Amount)
- 3. Wallets information of Participants

For Printing Purposes:

Transaction ID: Starting 8 characters printed Public Key: Starting 6 characters printed

Here are some screenshots of running program.

Screenshots

** Bitcoins printed:

Select Command Prompt

Y:\#STUDY\UFL\Fall 18\Distributed OS\project4 1>epmd -daemon

Y:\#STUDY\UFL\Fall 18\Distributed OS\project4 1>escript project4 1 4

bitcoin;ayushivaA0xwhntX0Y6027 bitcoin;ayushivaA0xwhntX0Y7983

bitcoin;ayushiva2DdhHJc0fF6491 000083f3385223f6b702a29633e9208252d8d02d03ce007ca0557c13c385b428 bitcoin;ayushivazYN8cymJMB2238 0000aad27729bfa46b1aa718cd2227d51a15014a3570a77d80733dade71468fa bitcoin;ayushivaEuBTtTnG3Y6952 0000049c0ff86b46083ac2648c700ce39e1e79b1907b0b2606c850eeab4a58a5 bitcoin;ayushivaEuBTtTnG3Y12567 0000d1f651e3222e550f3d62c157fe1bee8e091ab927f71adfce568019253d1d bitcoin;ayushivaU6xmCDbYkE42911 0000c96df76125e86e4c86c2b7506cd82706acbca3e1ceaff9b62e0a19ab46c6 bitcoin;ayushivaaw8hwGAnZq7628 00004cb183b83c92020eab65349537f9e5e5271d5a6c1f34890c6322544e0b3e bitcoin;ayushivaaw8hwGAnZq24120 0000c01f20eea1b1c4128b4ac370452aeb7f1b3801282218a6d2f687bbc21476 bitcoin;ayushivawgS2MmbJwk19501 00002915e4503b7efc81cbbdf0837bdaeae9bc7345a34ae10e5d71e2dbb3459d bitcoin;ayushivawgS2MmbJwk40171 00007ac58c21df84ec787941bb090919ea31a36ab48cfdfadfdf03f4874a7cdf 00007cb4b0d985f37fe3d1617a868f7eb6465269c44e5c7b3babc2a6dd0d13dc 00001a91fd8209778fe413f2c6cfc2ec2533cc53d445ea0749f929a47dd523a2 bitcoin;ayushivaXcBD8wReGq15693 000078c8bb2eeaf9c6362db81e1dfcbd343e620c303a99bb6fd898a2e85ee4f5 bitcoin;ayushivaXcBD8wReGq24644 00004b2c3a611d66d7a85383b0dea27c84485f08c7979a2ecc1f46de228a4b28 bitcoin;ayushivaTWsJkw5Xzv23195 00007ea53ff7ce6ba3dbf6b368e6526cec59f305569e191c48e8426b906bc913 bitcoin;ayushiva9Bmy9tXQH88121 00002f5d654416a7e51748eb37be87bab92db63cf992c1e484ca73810b5abd8e bitcoin;ayushivaqC3GyxWIYy11254 000018be95482f1c2b0ba4cfb18fbc54080281cf6b5a6c1715f08d9eb8e1ed72

** Transactions Performed:

Select Command Prompt

bitcoin;ayushivamkIAH9jne92539 00008f33482ba8f4d9a6a132980e3f8d80070dfe804fbac69f1ee4a7e1f903bf bitcoin;ayushivamkIAH9jne937805 000077b357fb9334c370343b839172e7261d1d332bb618531b33825f3558a4a5 bitcoin;ayushivamkIAH9jne939292 00004ee34ebf81387c3eb29e64312a751aa25e24a61469f97529fb6988bedb64 Maximum number of threads reached!

Total Bitcoins Mined: 65

Transactions Information

Transaction id	Sender Addr.	Receiver Addr.	Time	Status	Amount
DpP0w3XX	046472	04DF37	2018-11-26 19:10:06.383000Z	Success	2 BTC
JZvBOfiV	04EBF4	046472	2018-11-26 19:10:06.919000Z	Success	4 BTC
NHFWwzaz	04EBF4	04F51A	2018-11-26 19:10:07.429000Z	Unconfirmed	5 BTC
RB00C67n	0469B4	04EBF4	2018-11-26 19:10:07.937000Z	Unconfirmed	12 BTC
ScsWHL4g	04DF37	04F51A	2018-11-26 19:10:08.450000Z	Success	2 BTC

** Wallets

RB00C67n	0469B4	04EBF4	2018-11-26 19:10:07.	937000Z Uncon-	firmed 12 BTC
ScsWHL4g	04DF37	04F51A	2018-11-26 19:10:08.	450000Z Suc	cess 2 BTC

Wallati BAFFAA

Wallet: 04F51A

No transactions for this wallet

Balance: 10 BTC

Wallet: 0469B4

No transactions for this wallet

Balance: 9 BTC

Wallet: 046472 Transaction:1 Receiver: 04DF37 Amount: 2 Status: Success

Balance: 10 BTC

Wallet: 0444C5

No transactions for this wallet

.....

Balance: 8 BTC

Screenshot (Testing)

Randomized with seed 926000

Command Prompt

```
Y:\#STUDY\UFL\Fall 18\Distributed OS\project4_1>mix test
Compiling 1 file (.ex)
Generated project4_1 app
...
Finished in 0.2 seconds
3 tests, 0 failures
```