

DOS Project 1

The goal of this first project is to use F# and the actor model to build a Simple Bitcoin model using SHA-256 and create multiple actors to mine the coins using AKKA.net.

Team Members: -

- Aaditya Prakash (54154358)
- Prasann Pradeep Patil (66037075)

We divided the problem into two parts-----

1. Generating random strings (relatively easier, so this subproblem was assigned less workers)
2. Mining coins (this subproblem was assigned more workers)

The result of running your program for input 4 was: -

```
=====
Current Stats
CPU time = 7609ms
Absolute time = 2281ms
=====
```

The running time for 6 zeros was:-

```
=====
Current Stats
CPU time = 441500ms
Absolute time = 136983ms
=====
```

We were able to find coins with 6 zeros.

The largest number of working machines we were able to run was 2.