CHAPTER 3
RESEARCH METHODOLOGY

This project will compare SHA256 Algorithm and Scrypt Algorithm probability of finding new block. The source program that used to run the test are Bitcoin core for SHA256 and Litecoin core for Scrypt. To complete the test, Author use 4 different CPU to run the test.

To compare SHA256 and Scrypt, Author will try to test in some diffrent condition such as :

1. Hashing time: the hashing process will be done 3 times for each algorithm with different hashing time, the first is 10 hours hashing, second is 3 hours hashing, and the last one is 1 hours hashing.
2. Test System: the hashing process will be done on 4 different CPU, the first is Intel Pentium G4560, second is AMD Ryzen 3 1300X, third is Intel Core i5-4200H, and the last is AMD Ryzen 7 1800X.

From the test Author will record how many attempts on each test using hash meter and how many new blocks were found during the test using awk programming language and it will be used to count the probability of finding new blocks.