Explanation_PRJ5

1. Goal

- Use your knowledge of linked lists and hashing to create a blockchain implementation.

2. Code Design

A. Linked-List

- I've used two classes named Block(Node) and BlockChain(Linked-List) which has 3 methods 'append', 'size', 'to_list'

B. Hash generation

- I've used SHA-256 Hash with text string of data itself.

3. Efficiency

A. Time Efficiency

- i. append \rightarrow O(1)
- ii. size \rightarrow O(n)
- iii. to_list \rightarrow O(n)
- iv. Total : $O(1+n+n) \rightarrow O(n)$

B. Space Efficiency

i. Space Effficiency is O(n) because it grows linearly when linked list (BlockChain) stores each node