Explanation\_PRJ5

1. Goal

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

1. Code Design
   1. Linked-List

- I’ve used two classes named Block(Node) and BlockChain(Linked-List) which has 3 methods ‘append’, ‘size’, ‘to\_list’

* 1. Hash generation

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

1. Efficiency
   1. Time Efficiency
      1. append 🡪 O(1)
      2. size 🡪 O(n)
      3. to\_list 🡪 O(n)
      4. Total : O(1+n+n) 🡪 O(n)
   2. Space Efficiency
      1. Space Effficiency is O(n) because it grows linearly when linked list (BlockChain) stores each node