Question 4

A simple implementation of a caching library from scratch is tried for Page replacement.

Design:

- The Page Replacement algorithm tried is for Least Recently Used (LRU).
 Least Recently Used (LRU) algorithm is a Greedy algorithm where the page to be replaced is least recently used.
- Implemented LRU Algorithm in python

Consideration:

· Hashing is used

A Hash with page number as key and address of the corresponding queue node as value.

Implementation:

