

Distributed Hash Table Assingment 3 Report

To run code:

```
python3 Dk3936_DHT.py
```

Available commands:

- add node: add a new Memcached node
 - > add node
 - Enter node name: m1
 - Enter node IP address: localhost
 - Enter node port: 11211
- remove node: remove an existing Memcached node
 - > remove node
 - Enter name of the node to remove: Use 'view nodes' if unsure: m1
 - Node has been sucessfully removed
- set: store a key-value pair in the DHT
 - > set
 - Enter key to be added: 101
 - Enter value to be added: Test
- get: retrieve the value of a key from the DHT
 - > get
 - Enter key: 101
 - Value: Test
- read list: sample 10 random keys from the DHT and display their values
- test: Automate the testing function to decide whether the test passes or not
- view nodes: display the nodes in the DHT
- help: display this help message
- exit: exit the interactive shells