

## Section 01

(2)

```
0
Type command: 1
Enter user name: Thejas
Enter password to be saved: 210383
Type command: 4
[0]-->
[1]-->
[2]-->
[3]-->210383
Type command: █
```

(3)

```
0
Type command: 1
Enter user name: Thejas
Enter password to be saved: 210383
Type command: 4
[0]-->
[1]-->
[2]-->
[3]-->210383
Type command: 1
Enter user name: Gethara
Enter password to be saved: 1234
Type command: 1
Enter user name: Tharoosha
Enter password to be saved: 1254
Type command: 1
Enter user name: Tharindu
Enter password to be saved: 15478
Slot is not empty
Type command: 4
[0]-->1234
[1]-->1254
[2]-->
[3]-->210383
Type command: █
```

(4)

```
Type command: 1
Enter user name: Thejas
Enter password to be saved: 210383
Type command: 4
[0]-->
[1]-->
[2]-->
[3]-->210383
Type command: 1
Enter user name: Gethara
Enter password to be saved: 1234
Type command: 1
Enter user name: Tharoosha
Enter password to be saved: 1254
Type command: 1
Enter user name: Tharindu
Enter password to be saved: 15478
Slot is not empty
Type command: 4
[0]-->1234
[1]-->1254
[2]-->
[3]-->210383
Type command: 2
Enter item to be deleted: Thejas
User deleted
Type command: 4
[0]-->1234
[1]-->1254
[2]-->
[3]-->
Type command: █
```

(5)

- The problem when we are using this kind of a basic Hash Table is when the hash values are same for any user\_names (keys) there's no way to insert those values into the Hash Table. Because collision will happen.

## Section 02

(02)

```
0
Type command: 1
Enter user name: Thejas
Enter password to be saved: 210383
Type command: 1
Enter user name: Thejas
Enter password to be saved: 123456
Type command: 3
[0]-->[]
[1]-->[]
[2]-->[]
[3]-->[Thejas, Thejas, ]
Type command: █
```

(03)

```
0
Type command: 1
Enter user name: Thejas
Enter password to be saved: 210383
Type command: 1
Enter user name: Thejas
Enter password to be saved: 123456
Type command: 3
[0]-->[]
[1]-->[]
[2]-->[]
[3]-->[Thejas, Thejas, ]
Type command: 1
Enter user name: Gethara
Enter password to be saved: 159753
Type command: 1
Enter user name: Tharoosha
Enter password to be saved: 1234567
Type command: 1
Enter user name: Tharindu
Enter password to be saved: 1477896
Linked List reached MAX CAP!
Type command: 1
Enter user name: Govindu
Enter password to be saved: 1245
Type command: 3
[0]-->[Gethara, Govindu, ]
[1]-->[Tharoosha, ]
[2]-->[]
[3]-->[Thejas, Thejas, ]
Type command: █
```

GitHub: <https://github.com/Thejas0604/CSE-labs>