Topics to be covered for

Week 14

Reference section 10.2

*“****Data Structures and Program Design in C****”,*

Robert Kruse, C.L.Tondo, Bruce Leung and Shashi Mogalla

* Trie Data Structure Introduction, Definition and applications
* Trie Data Structure Implementation(linked nodes)
* Create Trie
* Insert into Trie
* Delete from Trie
* Search in a Trie
* Display strings of specific length from a Trie
* Destroy a Trie

Week 15

* Hash Table, Hash functions and collision
* Collision Handling using separate chaining(implementation)

Week 16

* Collision handling using Linear probing(implementation)
* Clustering problem with linear probing
* Alternate techniques to handle clustering
* Collision handling using Quadratic probing
* Collision handling using random probing
* Collision handling using rehashing(implementation)