**Design for Hash Table Project in C**

**Problem Statement**- Create a hash table in C which carries out the following three functions:

1. insert (key, value)
2. delete (key, value) 🡪 value
3. get(key) 🡪 value

**Algorithm:**

Step 1) Create 2 structures: i) HashTableEntries & ii) HashTable

Step 2) Choose a hash function.

Step 3) Implement the hash table functions:

* add():

1. if item == NULL , insert item immediately.
2. If (strcmp(item->key,key)==0 ), then update the value.
3. Create a new item(key-value) if no matching key is found till the end of the list.

* delete():

1. if item == NULL, means the list is empty
2. If (strcmp(item->key,key)==0 ), then we delete the item accordingly on where the item is stored in the list that is first,mid,last.

* get(): It returns the value for the corresponding key or else return NULL.

Step 4) Display the Hash Table

Step 5) STOP