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IBM18CS017

LAB 9 - Program 8 - Implement functions of dictionary using Hashing.

```
class HashTableEntry {
    public:
        int k;
        int v;
        HashTableEntry (int k, int v) {
            this->k = k;
            this->v = v;
        }
};
class HashMapTable {
    private:
        HashTableEntry **t;
    public:
    HashMapTable() {
        t = new HashTableEntry * [Table_size];
        for (int i=0; i< Table_size; i++)
            t[i] = NULL;
    }
    int HashFunc (int k) {
        return k % Table_size;
    }
    void Insert (int k, int v) {
        int h = HashFunc(k);
        while (t[h] != NULL && t[h]->k != k)
        {
            h = hashFunc (h+1); // Linear probing
        }
```


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```
    if (t[h] != NULL)
        delete t[h];
    t[h] = new HashTableEntry (k, v);

}
int search (int k)
{
    int h = hashFunc(k);
    while (t[h] != NULL && t[h] -> k != k) {
        h = hashFunc(h+1);
    }
    if (t[h] == NULL)
        return -1;
    else
        return t[h] -> v;

}
void deleteEle (int k)
{
    int h = hashFunc (k);
    while (t[h] != NULL) {
        if (t[h] -> k == k)
            break;
        h = hashFunc(h+1);
    }
    if (t[h] == NULL) {
        cout << " No element found at key " << k << endl;
        return;
    }
    else {
        delete t[h];
        cout << "element deleted " << endl;
    }
}
};
```


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