Advanced Data Structures
Batch – 5
Program ~ 8

Rutozeet Ritik Rout
IBMIECS151

table size initialized to some constent.
Structure Hash node created to declare key k and value v.

Create class Hashmap →
Create a hashtable with constructer & initiative it to NULL

create Hashfunc (int k) {
        returns   k % tablesize
}
insert (int k, int v) {   // insert value v at key k.
        h = Hashfunc(k);
        loop until table [h] is NULL or
                table [h] → k is k
        h = Hashfunc(h+1);
}
        if table [h] is Not equal to NULL
                delite it
        & create   a new entry as table[h] = new Hash Node (k,v)
~~and~~

int searchkey (int k) {   // searching element at key k
        get hash value by calling
        hash function on k = h

        loop until table [h] is NULL or table[h] → k
        = key & update h
                h = Hashfunc (h+1)

        if table [h] == NULL
                returns   -1   // Not found
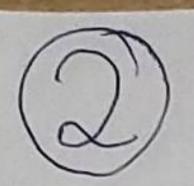   else
                returns value i.e table [h] → v

```
void deletekey (int k) {
    get the value & loop your encounter
    table [h] as NULL
    if table[h] → k == k.
            break;

    else
            update h= Hashfunc (h+1)
     if table [h] == NULL
            1 no element found at key.
    else
            delete table[h]
```