AKSHAY MITTUR 30-09-2020 1BM18 C5010 ADS LAB WEEK 2 A Skip List Algorithms: / Pseudo Code

Deciding level. => lvl=1

while while rand () KP & R Julk n lvl+=1return lul n= max no. of level P = Nodes i sitt pointers Nodes Insertion n= list > header for (i = list > level; i>=0; --i) while (n > forward [i] > key) forward [i] update [i]=1 N= n > forward [0] lus = decide level() if (IVI > list > level) for (i = list > level + 1; i > = lal) update[i] = list + header list -level = lul n = node (IV), search key, vailue) for (i=0; i clevel) i+) \$ n > forward [:] - update [:] > forward [] update [] > forward[] = x

23-09-20 ADS LAB Date Page 1 WEEK 2 13m18cs010 Delebe: n=list > header for (i= list > headland; i>=0;3--i) while (n > forward[i] > key) forward [i] update[i] = 7 x = x > forward[0] if x > Key = search then for i= Ojik list & level if (updat [i] + forward [i] + Men break; up date [i] > forward [i] = n > forward [i] while (list > level >0 } (l list > hander > forward [lists had] list > level = list > level - 1 Search: n = list > header while (> forward [i] > Key) forward [i] n=n > forward[b]

else return foi false (or -999)