11/1/20

ADS WRITEUP

B-Tree

Insertion functions:

void insert (int K) {

if (root) {

root = new Node (t, leaf=true);

root = 1;

} else{

if (root 3 == 2 + t -1) {

Noche \* s = new Noche (t, leaf-fall)

5 > ([0] = 100 t;

s-split(hild(o, (ost);

int i=0;

if (s > keys[o] < k) i++;

S+C[i] > insert Non Full (K);

root = s;

} else root > insert Non Full (14);

void insertablicall (int k) {

int i= n-1;

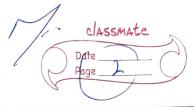
if (leaf == true) {
while ( i >= Obl Keys[i] >K) {

Keys[i+1] = Keys[i];

1--

3

## AKSHAY MITTUR 18M18(5010



splitchild Function Splits the Node and promotes I key to porent while making the other ones children.

1 2 3 >

H 3