Sanjeer Kennar Singh 13M18CS093 classmate 11/11/20 ADS Lab7 Program 6 Insertion in B-tree Initialize X as reat

while X is not leaf, do fellowing

find the child of x that is going to be traversel

next, Let child be y.

If y is not well, change x to point y.

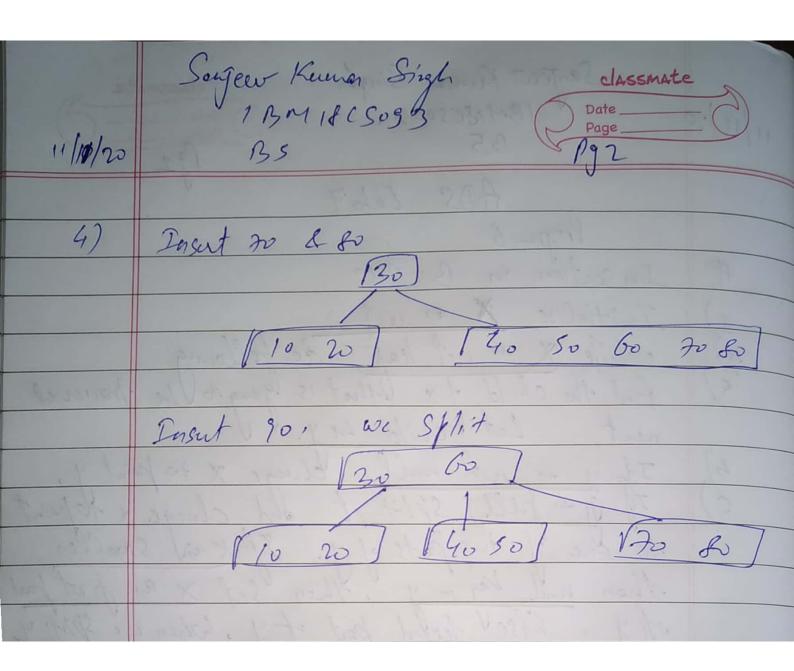
If y is fell, Split it and change x to point

to one of two parts of y. If K is Smoller

than und key in y then set x as first part

of y. Else Jeeled part of y, when we split y.

we nieve a key from y to its parent x. nieve a Key from The loop in Stp2 Stops when x is leaf. x must have space for I capra Key as we have been Splitting all modes in advance
So Simply insent K to X. Insert 10, 20, 30, 40, 50, 60, 20, 80 190 10 20 30 40 50 Insert to, not node is full, hence we Split into 2



Senfeer Kurner Sigh classmate

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13 11/11/20 ADS Lab -B-True West BTree: insert (int K) if (root = = NULL) f rest = new BTree Node (t, true) rest -> Keyp[o] = K, Vact - h = 1 if (rest -) n == 2t-1) 5 BTree Node RS = new BTru Node (t. folse) S + C(0) = rest S+splitcheld (0, root) if (S+ Keyp [] (K) sitt,

Sinsat Nonfuel (K) Dest = S, 9 get insert von full (K)

Senfelv Kuman Singh 13M 18CS093/ classmate 11/11/20 Void B Tree Node: insert Non full (int K)

if (leaf == true)

while (i)=0 48 (ceys(i) > K) ?

Keys (i+1) = (ceys(i); (Ceyp(i+1)= K) n++; else f while (i) 20 & & key[i] > K if (c(i+1) -> n = = 2t-1) {

Splitchild (i+1, c(i+1));

if (Keys (i+1) < K) C.C;+1) A 2 insert ron full (K)

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