ADS-LAB Work-up) 2-3 Tarees Abhishikat Ruman &. 1BM18CS004 5A

```
Insertion:
 void insert (int K)
 (toor!) [ }
    - over = new Inee Node (true);
        Proof -> Keys[0] = K;
        orost >n=1;
   else s
      i (200 ->n = =3)
       Tree Abde +s = new Tree Node (Jalse);
          8->child[o]=root;
           S-> split Child (0, noot);
           1 (8-> Keys[0] < K)
          S-> child [i] -> insedfull (k);
           stoot=s;
       else
         f groot > insext Nonfull(k);
```

Delehion

Void delete (int K)

2 int index = find (K);

if (index < n & & ney stindex] = = K)

3 if (leaf) remove from leaf (index);

clsc remove from Non-leaf (index);

1 Alesn

Abhishikat Roman Soni else { j/(leaj) 1BM18C8004 SA { cout < c" Not Enist" < condi bool flag = ((index = = n)? tove: falre); i) (child Under] -> n < 2) fill (inden) J (flag && inden>n)
child [index-1] => stemate(x): else child [index] => gremore (K); Entoa functions //insestnoafull => insest key into node // splitchild=> Split node => children node 1/ Remove Form Non lea] => Meages node after deletion I Remove from Leaf => Shift element to left side after deletion.

Eksu.