```
Node * new Node (int Key)
    Node * node = new Node();
    node -> Key = Key;
    node -> left = NULL;
    node > right = NULL:
    node -> height = 1;
    rutur (node);
 No de + right Robate (Node * node)
       Node * left = node > left;
       Node * right = left > right;
                                                   and the other
        left > right = node;
        node -> light = Hight;
        node > height = max (height (node > light), height (node > right))+1;
         left -> height = max (height (byt -> lyt), height (left -> light) 7+1;
        rutur left;
          * left Rotate (Node * no de)
  Node
          Node * right = node > right;
          Mode + left = made right -> left;
          right -> left = node;
           node -> right = lyt;
          node - hight = max (hight (node -> left), hight (node -> right)) +1;
          night > hight = max (hight (hight > lyt), height ( right > hight)) +);
         return right;
    4
```

```
Node * insut (Node * node, int key)
       g (node == NULL)
          rutum (nuoNode(Key));
       g) (key < node → key)
                                                            Wating a
            node -> lyt = ensert(node -> lyt, key);
                                                            new rock at
       else of (Key > node -> Key)
                                                             position.
              node > slight = insert (node -> right, key);
        else suturn nodi;
        node -> height = 1+ marc (height (node -> lyt), height (node -> right));
                                             I getting Balance at each
        int balance = getBalance (node);
        If (balance > 1 t Key < node > left > key)
       rutum rightRotate (node);
        If (balance <-1 lf Key > node -> right -> Key)
                                                           Rotating the
           rutur left Rotate (node);
                                                          the if there is any
        If (Balance >1 It key >node -> left -> key)
                                                           inbalance in tru.
               node > lyt = Lyt Rotate (node -> lyt);
             rutum right Rotate (node);
        I (Balance <-1 & & Key < node -> right -> Key)
             node > right = right Potate (node > right);
            gutun luft kotati (nodi);
        situm nodi;
```

at the comment of the comment of the comment

of the transfer of the contract of the second

```
* duleterhode (Mode * mool, int Key)
of (most == NULL)
      section root;
                                                            Find in g the
                                                            correct node
of (scot > key > key)
      noot → lift = deleterlode (rlode > left, Key);
                                                             that is to be
                                                            ditited.
else J ( root -> Key < Key)
      hoot -> light = delete Mode ( hoot -> right , Key);
                                              ← Once journe below steps
will be executed.
 else
      J/( hoot > left == NULL) 11 (hoot > hight== NULL))
                                                   deleting a node with LOTO childs
            Node + temp = root > left ? root > left : root > right;
          of (temp == NULL)
                 temp = root;
              *root = * temp;
           tempt; fultimp);
       else
                                                            with more than
           Node * temp < min Value Node ( 400t → right); y, child
            scoot -> key = temp -> key;
            Front -> light = delete Node ( Front -> sight, temp -> key);
                                           rusating the tree values
 of (most=NULL)
                                         L and Balanting it by Rotating appropriatly.
    . suturn hoot;
 noot-) hight= 1+max (height ( noot > left), height ( noot > right));
Balance the tree same as in insert function if its unbalanced
Jutur scot; (
```