```
Rudomuni G.m
13 MIRCSONS.
```

LAB-4

```
Insert (Node * rode, int dota)
 it ( rodez = NULL ( STERIO to) 26 nd 21 too)
 return neurode (dates)
  else it date > node > double
node - lunild = in Serot (rode - lunid, data)
  else it date > node > data
   node > ochild = insert (node > ochild, data)
node > height = 1 + max(height (node > lichid), height
           (Hillis nodes schild).
 balance = getbalance (node)
 it (balance L-1 d. 1 dates) rade sociild data)
 node=(node) # left solete
 it (balance > 1 dd data ende -> 1child > data)
   node = right rotate (node)
   it (bolances, didata mode-schild sdata)
     rode > ruild = lettrotete (node +> ruild)
      rode = lett potate(rode)
      octurn Nade
 Delete (node* ooot, int data
      it ( 000t = = Null)
        Jeturn 200 t
    i+(data < root >data)
     soot -> lahid = Delete (200+> luild, deda)
     else it (data > 000t > data)
   soot > ochild = Delete (soot > ochild, desta)
       it 2004 > 1 child is well or root result is wall
```

```
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      temp = root > lexild , root > laid; root-round.
       it temp is well
          temp = 200 t
          root = Null
          else
          root= temp
           toee (temp)}
     qeise
        temp = minvaluerode (ooot = occild)
      2001 > dada = temp -> data
       rooot > ochild = Delete (2001 > ochild, temp>date)
      it root is well
          octuen root
soot > height = 1+ max (right Good sochild), heigh Good-shild
    balance = get Balance (000t);
it(balance), de getbalance (soots luit) 20)
   root -> luild = left abelle (aoot -> luild)
    200t = right Rotate (2001
i+Coolance >1 d. gettoalanco (cool-) (Lild>=0)
   2001 = signt adate (2001)
it Chalance 2-1 & gethelance (motisochild) 2:0)
     2001 = left ootale (ooot).
it (balance c-1 of get belance (scot > schild) > 0)
  soot souild = sight Rotale (sad > ouild)
    scort = left Potale (od) }
  two newto
                                   Kud)
```