```
Nºkhil. A.S
1BM18CSO61
18 11 2000.
Void RBTree: insert (const int 4data) {
   Node *ptr = new node (data):
   Scot = BSTInsert (400t, ptr);
 2 tia violation (root, ptr);
Node & BSTInsert (Node * swot, Node * ptr){
  4(root == NULL)
      actum btr;
  of (ptr->data < noot > data){
     root -> dett = BSTInsert (2007 > left, PAP)
    root-> left-> povent = scoot;
 else if (ptr->data > soot > data) h
  root = right = BSTInset (not = right, ptr)
  root + sught -> parent = root;
 return root;
 case A: Parent of ptris left child of
    Grand parent of ptr
       case 12. Uncle node of ptr is also red
           - D colour change
      cored: ptr is sightlike of; {s
             parents left
           - rotation required
```

coses: ptris deft child of He Parent - sustation is surjuired ase B: parent of At is sight child of grand parent of ptr com: Uncle of ptr is also red - wolor change comes: ptr is left child of its parents - rotation required. case3: ptiss right child of ith pounts - rotation required.