LAB - 06

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S - B

* PSEUDO CODE :-

```
void insert (int k)
if root == NULL
root = new Node (t, true);
root → keys [0] = k;
root → n = 1 ;
 else
    if root → n = = 2 * t - 1

Node *s = new Node (t, false);
s → c[0] = root;
s → splitChild (0, root);
int i = 0;
  if (s → keys [0] < k)
    i ++
  s → (i] → insert not full (k);
  root = s
   else
    root → insert NotFull (k);

void insert Not Full (int k)
int i = n-1
  if leaf = = true
    while i >= 0  && keys [i] > k
      keys (i+1] = keys [i];
        i --;
```

```
keys[i+1] = K;
n = n+1;
else
  while i>=0 && keys[i]>K
  i--;
  if(C[i+1]->n == 2*t-1
    splitchild(i+1, C[i+1]);
      if keys(i+1) <K
        i++;
      C[i+1] -> insertNotFull(k);
```