```
Anusee Marg K
1 BM19 (801)
```

## Lab 7 - Brogram 7 \_ B-true (insution)

```
void Blace: insut (int k)
( root == NULL)
            root = new BTreerode (t, true); //t is min
// degree
// true = is by
             200t -> n=1.
     she &
         if (2001-)n == 2*t-1)
                BreeNode &s = new Brue Node (+, false);
                s -> child [07 = 200t;
                 S -> split Wild (0, root);
                 int 1=0.
               if (s-> keys (o) <k)
                  s-child (i) - insert Nonfull (k);
                  Root=5;
           elle 2007 - rinue Non Full (tx);
void Bree: insert Non Full (int w) $
      int 12n-1;
      if ( hey == teme)
          while (i 7 =0 & e keyr (i) 7k)
                kup[i+1]=kup[i];
```

dunin

```
kup[i+i] =k;
  else
        while (izeo && keys (i) 7 k)
         16 (child (iti] on == 2 xt-1)
               splitchild (i+1, dild(i+1));
                if (kuys (i+1) < k)
           child [i+1] -) injut Non Full (k);
void Brue Mode: split Wild (int i, Bree Node My)
    BTRENOde soz = new BTreeNode Cy >+, y -> leaf);
    マーカニナー1.
     for con 1:0, jet-1; 1++)
           Z-> keys(j]= y-) keys [j+t] ;
    if (y-> leaf == false)
          for (int j=0 ; j<+; j++)
               z-> child [j] = y-) child [j+t];
    Y-)nっt-1:
     for lint j = n; j >= i+1; j--)

child Gf17 = child [j];
    wild (i+1) = 2;
```

Smin

Anusice Hang 113 MISC80 17

```
for ( int j= n-1; j == i -j --)
      kup (j+1)=kup (j7)
Kups[i] = y > kups[+ 1];
7=1413
```

dan BTreeNode int sleep ( 1 (1) and int to Bleenode xx child; "ant n" bool leaf;

//function declarations

clain Blace

4

Btrepale & root; inttilligated 17/hours

17 Junctions

++ 11 0 1 will

fred a tory