ADS Lab 7

```
fune insut (int h).
     if noot = - NUL:
           root = new B Tree Node (t);
           lost - hey [o] - h;
           root - " = 1;
     else:
         if (root -n == 2 t -1):
              8 - new BTree Node (t)
              s-c[o]= rest
              s - split Child (o, root)
              int i - 0;
              if (s -> hey [o] ch) i++
              s-c[i] - insert None Full (h);
              root =1
         else: noot - insert Non Full (h),
 June insert Non Full (int h):
        if leaf = = true:
             while (i>0 and heystid > he):
                  heysli+iJ = heystiJ; i--
             heys[i+i]=h : n+=1
        clse:
            while (i>=0, and heys[i]>h): i--
         if ([i+1] = 2+6-1):
              split Child (i+1, c[i+1);
            if heystitiJch: i++
         (ti+1] - in sect Non Full (h)
```

```
split Unild ( int i, BTree Node y ):
func
         2 = new BTree Node lyst, y- leaf)
         2 -n = t -1
         for i from 0 -st-1:
               z - huy [i] - y - c[j+t];
        y - n = t - 1
          for j from i+1 - n:
              (lj+1] = clj]
       C[j+1]=2
         for j from n-1 - 1:
           heysti+1] = heystj]
       heys[i] · y - hey/[t-1]
       N= N+1;
```