16/12/2020 ADS LAB-10 REVANTH-R
1BM18CS082
defaulty

Delete(H) and

decrease key(H) function

on Binomial Heap

```
void decreasingBHeap ( Node *H, int old_val
                                int new_val )
{   Node *node = findNode ( H, old_val);
    if (Node == NULL)
        return;
    node -> val = new_val;
    Node *parent = node -> parent;
    while ( parent != NULL && node -> val < parent -> val)
{       swap ( node -> val, parent -> val);
        node = parent;
        parent = parent -> parent;
    } }
// Function to delete an element
Node *binomialHeapdelete ( Node *h, int val)
{   if (h == NULL)
        return NULL;
```

```
decreaseKey BHeap(h, val, INT_MAX)
    return extractMinBHeap(h);
}

// Function FindNode
Node * findNode(Node *h, int val)
{   if (h == NULL)
        return NULL;
    if (h->val == val)
        return h;
    Node *res = findNode(h->child, val);
    if (res != NULL)
        return res;
    return findNode(h->sibling, val);
}
```