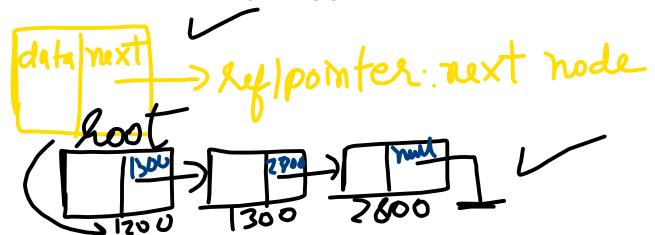
## **Linked List**

- -collection of nodes in sequential manner.
- -Node: strucutre that carry data(s) and link to next Node



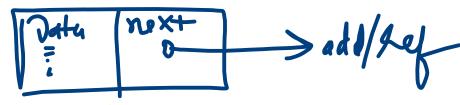
## Linked list:

- -1st/left most is called root/head/start, it is the only node whos address will be remembered.
- -all other nodes are ref using links to next.
- -righmost/last has next as null

## **Linked List:**

- -dynamic linear strucutre
- -most powerful as can implement all 5 DS using itself linked list can create:stack,queue,tree,graph

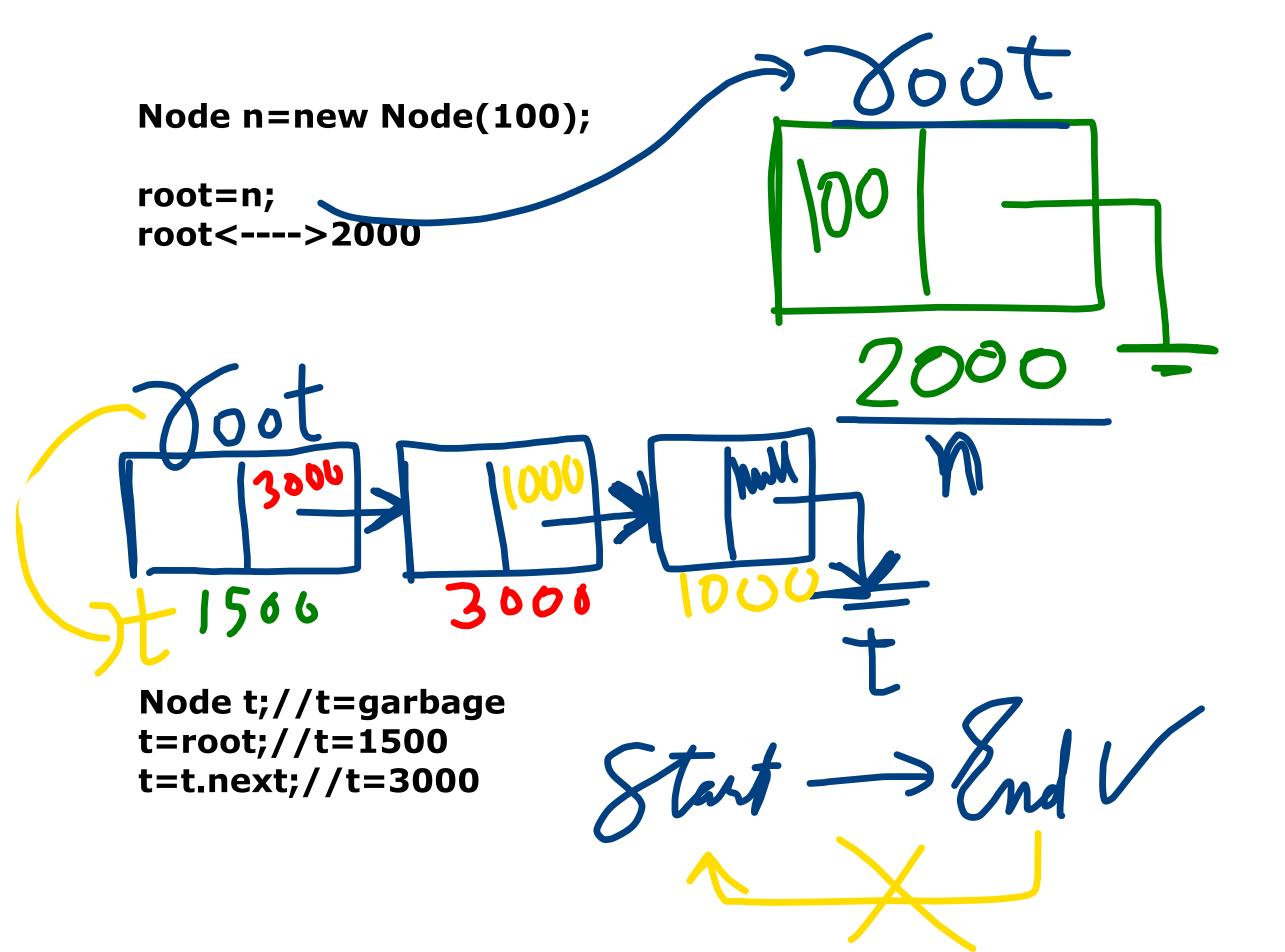




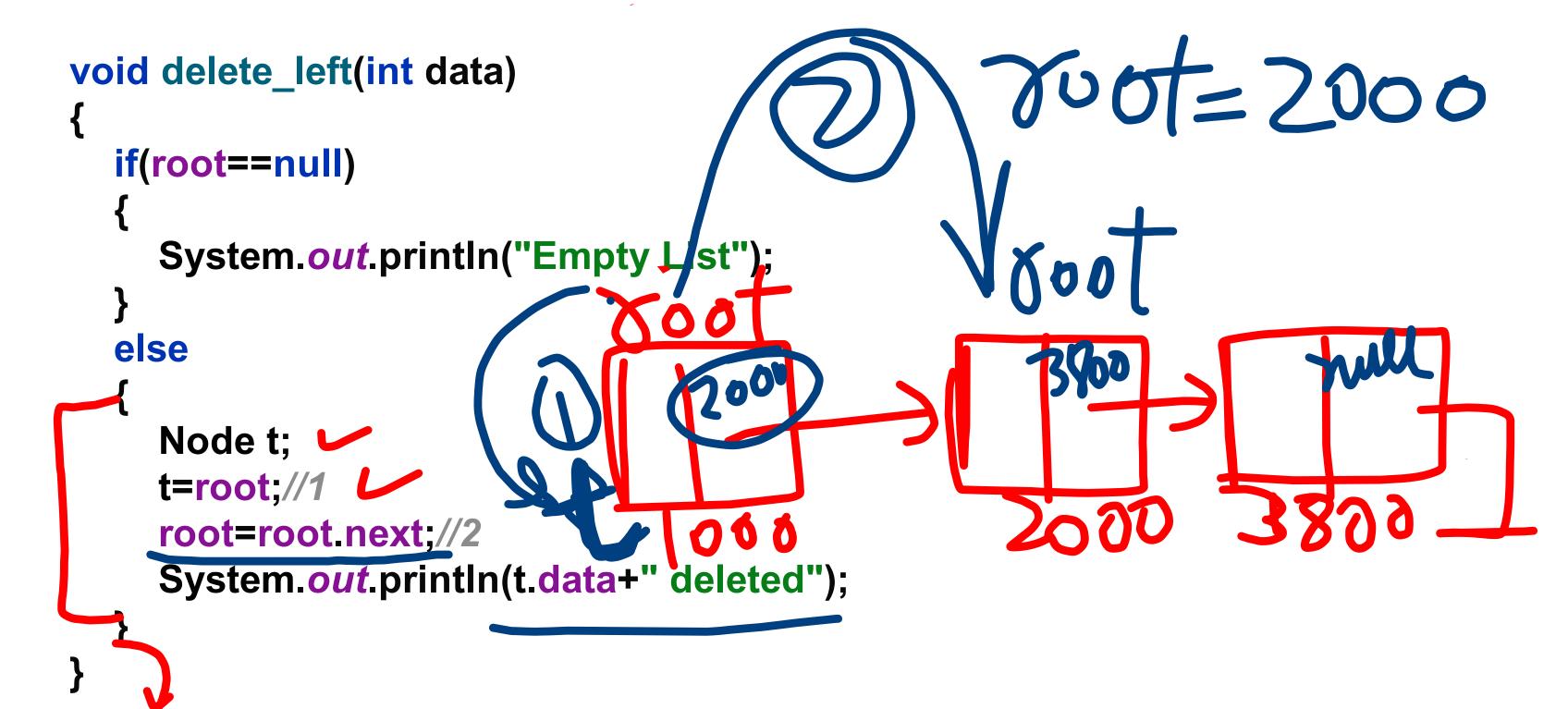
class Node

int data;
Node next;//self ref:ref refering to own type
Node(int data)

this.data=data;
this.next=null;
}



```
void inser_left(int data)
  Node n=new Node(data);
  if(root==null)
     root=n;//n becomes 1st so root
  else
    n.next=root;//1 \eta .vext=50 6
     <u>root=n;//2</u>
  System.out.println(root.data+" inserted");
```



```
void insert_right(int data)
  Node n=new Node(data);
  if(root==null)
    root=n;//n becomes 1st so root=
                          Yout
  else
   Node t=root;
                           U
 while(t.next!=null)
                                                    4200
      t=t.next;}
                                      210
                            000
  t.next=n;
  System.out.println(root.data+" inserted");
```

