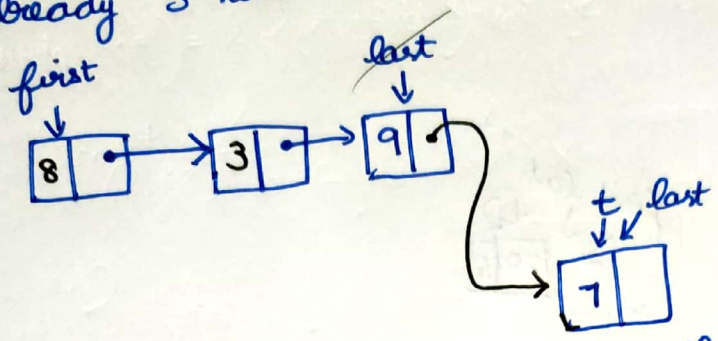
Inserting a node at the last of the linked list

* It is not necessary to traverse the complete linked list.
* Simply by using *last, we can add

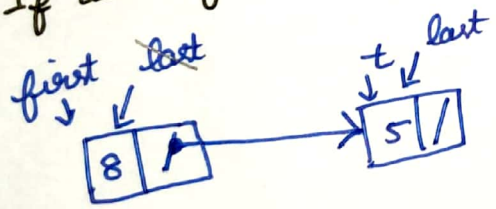
Eg: Already 3 nodes are present



∴ If we want to insert a new node at the last, it will take only constant time.

Special cases:

i) If already only one node is present:



ii) If there are no nodes:

first and last should be NULL

three pointers will point on the same new node.

Code

```
void Insertlast (int x)
{
    struct Node * t = (struct Node*)malloc (sizeof (struct Node));
    t->data = x;
    t->next = NULL;
    if (first == NULL)
    {
        first = last = t;
    }
    else
    {
        last->next = t;
        last = t;
    }
}
```

Will NOT ask the position, it will simply insert at the last

New node is ready

If there are no node in the linked list

first last t

(Makes a link)

(Moves the pointer last to t)