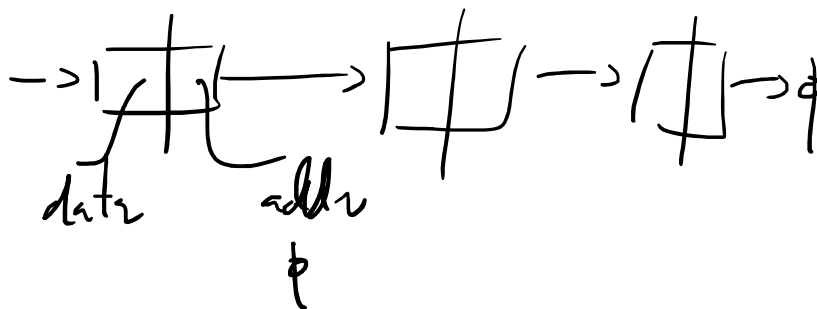
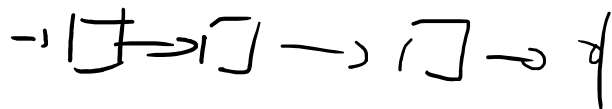
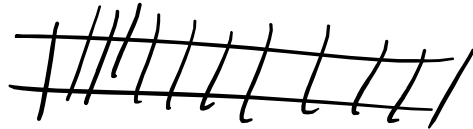


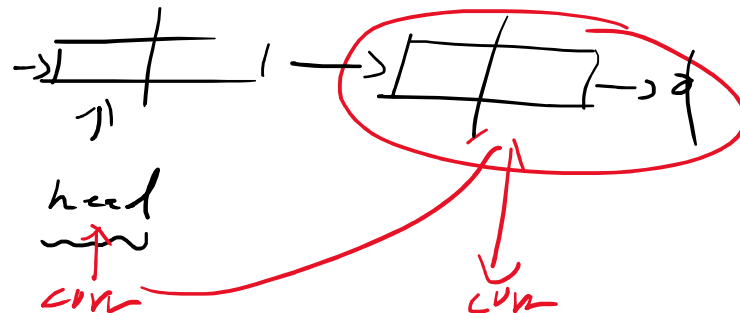
2025-02-21 - Implement linked list, stacks, queues and dequeues data structures

21 February 2025 13:21

-> Mod 3 : linked list :



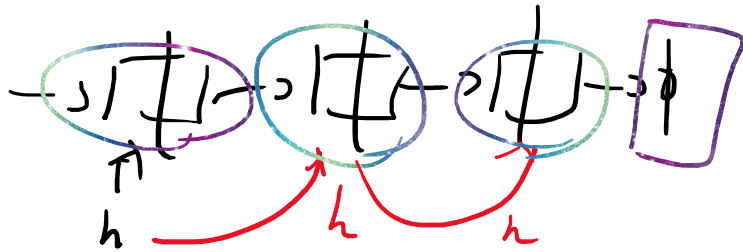
```
def insertion (self, data):
    newNode = Node (data)
    if not self.head:
        self.head = newNode
    else:
        current = self.head
        while current.next:
            current = current.next
        current.next = newNode
```



```
def recursiveTraversal (self, current):
    print (current.data, end = ' -> ')
    if current.next == None:
        print ('Null')
        return
    self.recursiveTraversal (current.next)
```

~~$f_n(1)$~~
 ~~$\hookrightarrow f_n(1+1)$~~
 ~~$\hookrightarrow f_n(1+2)$~~





```
def deletion (self, element):
```

```
    if not self.head:
```

```
        return
```

```
    if self.head == element:
```

```
        self.head = self.head.next
```

```
        return
```

```
    current = self.head
```

```
    while current.next:
```

```
        if current.next.data == element:
```

```
            current.next = current.next.next
```

```
            return
```

```
    current = current.next
```

