**Single Linked List**

Linked list is a sequential access linear data structure. In linked list every element is a separate object called a Node.

Every node will have 2 parts.

1. Data

2. Reference/pointer to next node

null

5

7

3

1

Node-4

Node-3

Node-2

Node-1

In linked list the nodes are chained as linear.

So, linked list is a sequential access linear data structure in which each element is a separate object called “Node” which has 2 parts “data” and “reference/pointer” to next node.

**Note:**

The end node in the linked list will point to a null. This indicates the end of the linked list.

**Linked List implementation in Python**

Class Node:

def \_\_init\_\_ (self, data=None):

SLL = Single\_Linked\_List ()

SLL.head = Node (1)

SLL.head. next\_node = Node (2)

self. data = data

self. next\_node = None

SLL

Class Single\_Linked\_List:

def \_\_init\_\_(self):

2

N None

1

self. head = None

**Adding and Removing information in the linked list**

Adding or removing information node in linked list will have 3 scenarios.

1. Adding or removing at beginning.
2. Adding or removing at end.
3. Adding or removing between two nodes.