

## LINKED LIST

### Creating a reference

```
class node:
    def __init__(self,data):
        self.data=data
        self.ref=None
node1=node(10)
print(node1)
```

### Traversing the List

```
class node:
    def __init__(self,data):
        self.data=data
        self.ref=None
class L:
    def __init__(self):
        self.head=None
    def print_L(self):
        if (self.head==None):
            print("Linked List is Empty")
        else:
            a=self.head
            while a is not None:
                print(a.data)
                a=a.ref
ll=L()
ll.print_L()
```

## **Program for adding elements and displaying it in the Linked List**

```
class Node:
    def __init__ (self, data):
        self.data= data
        self.next=None
class LinkedList:
    def __init__ (self):
        self.head=None
        self.last_node=None
    def append(self, data):
        if self.last_node is None:
            self.head= Node(data)
            self.last_node=self.head
        else:
            self.last_node.next= Node(data)
            self.last_node=self.last_node.next
    def display(self):
        current =self.head
        while current is not None:
            print(current.data, end = ' ')
            current = current.next
a_llist = LinkedList()
n =int(input('How many elements would you like to add? '))
for i in range(n):
    data =int(input('Enter data item: '))
    a_llist.append(data)
print('The linked list:', end = ' ')
```

a\_list.display()