DELETE ANY SPECIFIC NODE IN A LINKED – LIST

Delete Specific ( ):

Description: Here **START** is a pointer variable which contains the address of first node. **PTR** is a pointer variable which contains address of node to be deleted. **PREV** is a pointer variable which points to previous node. **ITEM** is the value to be deleted.

```
1.   If (START == NULL) Then              [Check whether list is empty]

2.        Print: Linked-List is empty.

3.   Else If (START->INFO == ITEM) Then   [Check if ITEM is in 1st node]

4.        PTR = START

5.        START = START->LINK             [START now points to 2nd node]

6.        Delete PTR

7.   Else

8.        PTR = START, PREV = START

9.        Repeat While (PTR != NULL)

10.           If (PTR->INFO == ITEM) Then    [If ITEM matches with PTR->INFO]

11.               PREV->LINK = PTR->LINK      [Assign LINK field of PTR to PREV]

12.               Delete PTR

13.           Else

14                PREV = PTR                  [Assign PTR to PREV]

15.               PTR = PTR->LINK             [Move PTR to next node]

              [End of Step 10 If]

          [End of While Loop]

16.       Print: ITEM deleted

     [End of Step 1 If]

17.  Exit
```