

## Lab Program 7(B)

1)

**Program - LeetCode program :-**

**Code :-**

```
bool hasCycle(struct ListNode *head) {  
    struct ListNode *slow = head;  
    struct ListNode *fast = head;  
  
    while (fast != NULL && fast->next != NULL) {  
        slow = slow->next;  
        fast = fast->next->next;  
  
        if (slow == fast)  
            return true;  
    }  
  
    return false;  
}
```

**Output :-**

**Case 1 :-**

Testcase | [Test Result](#)

**Accepted** Runtime: 0 ms

Case 1     Case 2     Case 3

Input

```
head =  
[3,2,0,-4]
```

```
pos =  
1
```

Output

```
true
```

Expected

```
true
```

## Case 2 :-

Testcase | [Test Result](#)

**Accepted** Runtime: 0 ms

Case 1  Case 2  Case 3

Input

```
head =
```

```
[1,2]
```

```
pos =
```

```
0
```

Output

```
true
```

Expected

```
true
```

## Case 3 :-

Testcase | [Test Result](#)

**Accepted** Runtime: 0 ms

Case 1  Case 2  Case 3

Input

```
head =
```

```
[1]
```

```
pos =
```

```
-1
```

Output

```
false
```

Expected

```
false
```

