1. What does the following function return for the given Single Linked List with the first node as head and key=12? Explain your result. [6]

14 -> 63 -> 47 -> 31 -> 78 -> 12 -> 9

```
def fun(self, key):
    temp = self.head
    var = 0;
    while temp != None:
        if temp.data == key:
            return var
        var = var+1;
        temp = temp.next
    return -1;
```

2. Given a single linked list and the first node denoted as head, write a function to create a new node with the value equal to the square of the first element and insert it at the end of the linked list. [7]

3. Given a double linked list and the first node denoted as head, write a function to delete the element at the second last position of the linked list. [7]