Exercise (Page 175)

Questions 2a–2c. are based on the linked list in Figure 7.9. Assume that each node in the linked list is the instance of class **node**.
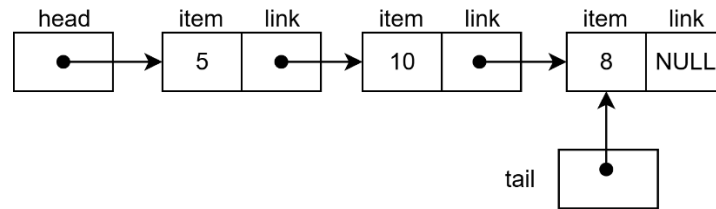

Figure 7.9 Singly Linked List

a. Trace the execution of the program segment below and redraw the linked list in Figure 7.9 to show the changes.

Statements	Linked list picture

node *temp;
temp = head->link;
temp->item = 100;	

tail->link = temp; temp->link = head;	
head = tail; tail = temp->link;	

b. Write a program segment to add a new node with item equal to 23 at the head of the linked list in Figure 7.9.

c. Write a program segment to delete the last node in the linked list, which is pointed by **tail**. Assume **curr** points to the node with item equal to 10.