THE UNIVERSE

COMSATS University Islamabad, Attock Campus

Department of Computer Science

Quiz-1 (solution)

CLO-1 (Employ linear data structures to solve computing problems.)

1- Write pseudocode to insert a node with value 25 after 20.

Function insertAfter(head, value, newValue):

node = head

While node is not NULL:

If node.data == value:

newNode = createNode(newValue)

newNode.next = node.next

node.next = newNode

Return head

node = node.next

Return head

2- Write pseudocode to delete the node 40.

Function deleteNode(head, value):	
If head == NULL:	
Return head	
If head.data == value:	
head = head.next	
Return head	
node = head	
While node.next is not NULL:	
If node.next.data == value:	
node.next = node.next.next	
Return head	
node = node.next	
Return head	

3- Write pseudocode to search for the value 30 and return its position.

nction searchNode(head, value):	
position = 1	
node = head	
While node is not NULL:	
If node.data == value:	
Return position	
node = node.next	
position = position + 1	



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Return -1 // If value not found