```
#include <iostream>
using namespace std;
struct Node {
  int data;
  Node* next;
  Node(int value) : data(value), next(NULL) {}
};
class LinkedList {
private:
  Node* head;
public:
  LinkedList() : head(NULL) {}
  ~LinkedList() {
     Node* current = head;
     while (current != NULL) {
       Node* nextNode = current->next;
       delete current;
       current = nextNode;
    head = NULL;
  }
  void insertAtHead(int data) {
     Node* new Node = new Node(data);
    newNode->next = head;
    head = newNode;
    Node* current = head;
  if (head == NULL)
     cout << "List is empty" << endl;
     return;
  }
  while (current != NULL)
     cout << current->data << "->";
     current = current->next;
  }
  cout << "NULL" << endl;
}
void deleteNode(int val)
```

```
{
  if (head == NULL)
  {
     cout << "List is empty, cannot delete." << endl;</pre>
     return;
  }
  if (head->data == val)
     Node* temp = head;
     head = head->next;
     delete temp;
     cout << "Node with value "
     << val << " deleted" << endl;
           return;
  }
  Node* current = head;
  Node* prev = NULL;
  while (current != NULL && current->data != val)
  {
     prev = current;
     current = current->next;
  }
  if (current == NULL)
     cout << "Node with value " << val << " not found" << endl;
  }
  else
  {
     prev->next = current->next;
     delete current;
     cout << "Node with value " << val << " deleted" << endl;
}
int main()
  LinkedList mylist;
  mylist.insertAtHead(30);
  mylist.insertAtHead(20);
  mylost.inseerAtHeas(10);
  cout << "Linked list after insertion:";</pre>
myList.printList ();
myList.delete Node (20);
cout << "Linked list after deleting 20:";
```

```
myList.printList ();
myList.delete Node (10);
cout << "Linked list after deleting 10:";
myList.printList ();
myList.delete Node (40);
myList.delete Node (30);
cout << "Linked list after deleting 30:";
myList.printList ();
return 0;
}
```