

Else, traverse the list to find the last node and append the new node deleteStudent(listHead, ID) If listHead is null, print "List is empty. Nothing to delete." If the ID to delete is at the head, update listHead to the next node and delete the head Else, traverse the list to find the node with the ID and remove it displayStudents(listHead) If listHead is null, print "List is empty." Else, traverse the list and print the data of each node modifyStudent(listHead, ID, newName, newGpa) Traverse the list to find the node with the given ID If found, update its name and gpa Else, print "Student with ID not found." purgeList(listHead)

While listHead is not null, remove the head node and assign listHead to the next node

searchStudent(listHead, ID)
Traverse the list to find the node with the given ID
If found, print its data
Else, print "Student with ID not found."
idExists(listHead, ID)
Traverse the list to check if a node with the given ID exists
Main Program:
Create a variable listHead and initialize it to null
In a loop:
Display a menu of options (create, add, delete, display, modify, purge, search, exit)
Prompt the user to choose an option
Call the corresponding function based on the user's choice
If the user chooses to exit, purge the list and exit the program