**Lab 3**

**Note: Show your code to the TAs at the end of the lab**

1. Create a book data type. Write a function *insertBook* to insert one book in an existing array of books. The array should be dynamically created. The position of insertion is an input from the user. No new array should be created. Modify the size of your array.
2. Add a function *deleteBook* to delete one book from the array of books. The book to be deleted should be an input from the user. Resize your array. No new array should be created.
3. Write a program to create a single linked list of non-negative integers. ***Note: No global pointer variables should be used.***
   1. Write a function to create the linked list. Call this method from main so that a list of 5 elements can be created. Take the integer of the node from the user.
   2. Write a function to display the nodes of your list.
   3. Write a function to insert a node at the beginning of the linked list. Again take the integer to be inserted from the user
   4. Call your function to display your list again.