Chongqing University of Technology

Subject: Data Structure and Algorithm

Instructor: Henry

Assignment_03

1.  Implementation of Stack using Array List

Following String Elements Liam, Noah, Ames, Oliver, Benjamin, Lucas, Mason, Jacob, Michael, Daniel, Jackson, Aiden, Matthew.

- int size (): Return the size (number of items) in this Stack Array List.
- boolean isEmpty(): Return true if this Stack Array List has no items. (This is the same as the size equal to zero.) Return false if the size is greater than zero.
- void push(E value): Add the given element, value, to the end of the list
- String pop():To pop the top Object from the Stack
- String peek():To view the Top Object . This will not modify the Stack.

2.  Implementation of Stack using Linked List

Following String Elements Liam, Noah, Ames, Oliver, Benjamin, Lucas, Mason, Jacob, Michael, Daniel, Jackson, Aiden, Matthew.

- void push (E value): Add the given element, value, to the end of the list.
- boolean isEmpty(): Return true if this Stack Linked List has no items. (This is the same as the size equal to zero.) Return false if the size is greater than zero.
- String peek():To view the Top Object . This will not modify the Stack
- String pop():Delete top element of Stack
- Void Display (): Display all the Elements.

1. Test your code in main method.

2. your code will have in two projects named StackArray_List, and StackLinked_List make it zip and send it to akabillah4420@gmail.com don't forget to write student id the subject name in your main folder "Assignment_3" in the mail. And be sure that your code has received by replying okay

3. Don't copy

Deadline: 21 October 12:00 am BD time and 2:00 pm China time (Thanks)