

Lab # 3: QUIZ [Stacks]

Subject: CPS-331 Data Structure and Algorithm

Course: BESE-15 A

Lab Instructor: Nausheen

Date: 7th Oct, 2010

TIME

8:15 – 10:15 (2 Hours)

SUBMISSION

Submit the code in assignment folder at 10:15.

QUESTION

1. Create a stack class using pointers, which can store characters. The class must allow user to perform following operations:
 - a. Constructor: To create and initialize a new stack object with stack size entered by user.
 - b. Push a new element on stack
 - c. Pop topmost element from stack
 - d. Function to check whether stack is empty or not
 - e. Function to check whether stack is Full or not
 - f. Display all elements of stack
 - g. Function which shows current status of stack i.e. number of elements pushed on to stack.
 - h. Destructor: To destroy the initialized stack array.
2. Use the stack class created in Question 1 to reverse the order of a string entered by user. For example, if user enters ABCD, the output will be DCBA