Data Structure Lab (15CSE 281)

Lab Sheet I

1. Create an Integer array A of size 15. Write functions to perform the following operations on the array:
   a) Insert element into array next to the last occupied.
   b) Delete the last inserted element.
   c) Check if the array is completely occupied.
   d) Check if the array is empty.
   e) Display the content of the array

   Write a main program to insert two more elements into the array A, delete 5 elements, and check the empty and full conditions of the array. After each insertion and deletion operation display the contents of the array.

   Sample Array A=[5,10,15,20,25,30,35,40,45,50]
   After calling function insert(100) a) A=[5,10,15,20,25,30,35,40,45,50,100]
   After calling function delete() b) A=[5,10,15,20,25,30,35,40,45,50]

2. Create a character array B of size 15. Write functions to perform the following operations on the array
   a) Insert element into array next to the last occupied.
   b) Delete the first inserted element.
   c) Check if the array is completely occupied.
   d) Check if the array is empty.
   e) Display the content of the array

   Write a main program to insert two more elements into the array B, delete 5 elements, and check the empty and full conditions of the array. After each insertion and deletion operation display the contents of the array

   Sample Array B=[A,B,C,D,E,F,G,H,I,J]
   After calling function insert(P) B=[A,B,C,D,E,F,G,H,I,J,P]
   After calling function delete b) B=[B,C,D,E,F,G,H,I,J,P]