



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Lab Assignment - I, Fall Semester 2022-23

Course Code : BCSE202

Course Name: Data Structures and Algorithms

Last Date : 22-08-22

Note:

Upload the codes and output along with the snapshots for each.

1. Stack applications

- i) Infix to Postfix Conversion
- ii) Evaluation of Postfix expression
- iii) Balancing Symbols

2. Write a menu driven program to perform static implementation of a queue data structure with all possible functions.

3. Write a program using arrays to perform insertion and deletion from both the ends of a Deque and also display the contents of it based on the choice given by the user.

4. Write a program that takes the details of mobile phone (model name, year, camera resolution, RAM , memory card size and Operating system) and sort the mobile phones in ascending order based on their RAM size using insertion sort.

5. Write a program that takes the details of a patient (hospital number, patient name, age, token number, height, , weight, reason(disease) and sort the patients in ascending order based on their token number using quick sort.