Abstract Data Type and Java Collections
PART(A)

Subject: CSW2(CSE3141)
Session: March 2022 to Aug 2022
Branch: CSE&CSIT
Section : All

Q1. Write a program to create an ArrayList of Integer type and perform the below operation on it.

   (a.) Display the list

   (b.) Ask the user to enter a number and search that number is it present in the list or not.

   (c.) Remove an element from an asked position.

   (d.) Add a condition to check the ArrayList is empty or not.

Q2. Create a class Student having member variable name, age, mark and required member variable. Create an LikedList of Student type and perform the below operation on it.

   (a.) Display the list

   (b.) Ask the user to enter a student object and print the existence of the object. Specify is the object is search according to reference or contain.

   (c.) Remove an specified student object.

   (d.) Count the number of object present in the list.

Q3. Write a java program to convert a decimal to binary equivalent using stack(Stack collection).

Q4. Write a java program to evaluate a postfix expression using Stack.

Q5. Write a java program to traverse a graph using breadth first search (use ArrayDeque collection).

Q6. Write a java program to traverse a graph using depth first search (use Stack collection).