LOVELY PROFESSIONAL UNIVERSITY

Academic Task No. __1__

School of Computer Applications

Faculty of Technology & Sciences

Name of the faculty member Prince Arora

Course Code: CAP 282

Course Title:Data Structures-Lab

Max. Marks: 30

Is Rubric Applicable: ____

Important Guidelines:

1. All questions in this Academic Task are compulsory.

2. It is mandatory to attempt all questions of the assignment in your own handwriting on A4 size sheets/ pages with a blue colour ink pen. Any other mode of attempt (typed or printed codes or table) except hand written/drawn will not be accepted/considered as valid submission(s) under any circumstances.

3. Every attempted sheet/page should carry clear details of student such as Name, Registration number, Roll number, Question number and Page number. The page numbers should be written clearly on the bottom of every attempted sheet in a prescribed format as: for page 1; **Page 1 of 4**, for page 2; **Page 2 of 4**, for page 3; **Page 3 of 4** and for page 4; **Page 4 of 4**, in case your assignment/document is of 4 pages.

4. After attempting the answer(s), student needs to take photograph of each of these answer sheets/pages and needs to convert the **jpeg** format images into a sequential single **pdf** format document (can be done with many free online available converters).

5. This PDF file should be uploaded onto the UMS interface on or before the last date of the submission.

6. Refrain from indulging into plagiarism as copy cases will be marked zero.

S. No.	Roll No.	Objectives of Academic Activity	Topic/Question Details	Evaluation Parameters	Expected Outcomes
1	Regd Number ends with 1,6	To gain basic knowledge about data structures	1.Write a program to traverse array. 2.Write a program to insert an element in array. 3.Write a program to search an element in array.	10 marks per question	How the data structures are represented in memory.
2	Regd Number ends with 2,7	To gain basic knowledge about data structures.	1.Write a program to show the concept of switch case. 2.Write a program to delete an element from array. 3.Write a program to search an element in array.	10 marks per question	How the data structures are represented in memory.

3	Regd Number ends with 3,8	To gain basic knowledge about data structures.	1.Write a program to concatenate two arrays. 2.Write a program to search an element in array. 3.Write a program to insert an element in array.	10 marks per question	How the data structures are represented in memory.
4	Regd Number ends with 4,9	To gain basic knowledge about data structures.	1.Write a program to merge two arrays. 2.Write a program to delete an element from array. 3.Write a program to search an element in array.	10 marks per question	How the data structures are represented in memory.
5	Regd Number ends with 5,0	To gain basic knowledge about data structures.	1.Write a program to traverse array. 2.Write a program to insert an element in array. 3.Write a program to show the concept of pointers.	10 marks per question	How the data structures are represented in memory.