Software Lab 207- (Probability and Statistics , Operating Systems)

1. A sample of 400 items is taken from a population whose S.D is 10.The mean of sample is 40.Test weather the sample has come from a population with mean is 38.

2. Two independent samples of 8&7items respectively. At the following values of the variables.

Sample1	9	11	13	11	16	10	12	14
Sample2	11	13	11	14	10	8	10	

Do estimate of population variance differ significantly.

3. Suppose that we want to investigate on the average man earn more than 20per week more than women in certain industry. If sample data S.D of 60 man earn on the average X Bar=292.50 per week &S.D 15.6 while 60 women earn on average Y Bar=266.10 per week &S.D of 189.20. what can we could that at 0.01%level of significant.

4. A Truck suspected the claim at the average lift time of certain tires in at least 28000miles.To check the claim put 40 of this tires on truck &get mean left time of 27463 miles with S.D of 1348 miles. What can it conclude that the probability of type 1 error is to be at most 0.01%.

5. The following number of sales fit a sample of 9 sales people of industry chemical in a California &sample of 6 sales people of industrial chemicals in usa made over a certain fixed period of time .

California	59	68	44	71	63	46	69	54	48
USA	50	36	62	52	70	41			

Assuming the population sample can approximate closely with normal distribution having the same variance and level of significance is 0.01%

6. Design and Develop a Java Program to execute dice probability?

7. Design and Develop a Java Program to execute Probability Sampler?

Operating Systems

8. Design and develop a software procedure for shortest job first algorithm

9. Design and develop a software procedure for first come first serve algorithm

10. Design and develop a software procedure for Round robin algorithm

11. Design and develop a software procedure for FIFO algorithm

12. Design and develop a software procedure for Least Recently used algorithm

13. Design and develop a software procedure for Least frequency used algorithm

Data Structures Lab

Unit I

1. Write a Java Program to implement Array operations.

2. Write a Java Program to implement Single Linked List operations.

3. Write a Java Program to implement Stack operations using Linked List.

4. Write a Java Program to implement Queue operations using Linked List.

Unit II

5. Write a Java Program to implement Binary Tree insertion and deletion operations.

6. Write a Java Program to implement Binary Tree traversals.

7. Write a Java Program to implement Linked and Matrix Graph representations.

8. Write a Java Program to implement Graph traversals.

Unit III

9. Write a Java Program to implement Binary search tree operations.

10. Write a Java Program to implement Heap Tree operations.

11. Write a Java Program to implement AVL Trees.

Unit IV

12. Write a Java Program to implement Quick sort.

13. Write a Java Program to implement Insertion sort.

14. Write a Java Program to implement Heap sort.

15. Write a Java Program to implement Merge sort.

Unit V

16. Write a Java Program to implement Linear search

17. Write a Java Program to implement Binary search.

Case Study

1. Write a menu driven Java program to implement different types of Linked List and its operations.

2. Write a menu driven Java program to implement different types of Queues and its operations.

3. Write a Java program to implement polynomial addition using Linked list.

4. Write a menu driven Java program for conversion of infix to postfix and infix to prefix.

5. Write a menu driven Java program to implement different types of Heap tree.

Note: - For Every Assignment in record must contain
i. A.D.T with description

ii. UML

iii. Algorithm

iv. Program, Sample I/O

ADVANCED DATABASE MANAGEMENT LAB PROGRAM LIST

SQL PROGRAMS:

1. To create a student table to perform a QUERY in Data definition language in sql

2. To create a employee table to perform a Query in Data Manipulation language in sql

3. To perform a QUERY on SQL Aggregate functions

4. To create a Customer and product table using DDL Commands to perform SQL JOINS Operation

5. To develop a Bank Database to perform a different views using SQL Views

6. To implement a Conceptual design with ER model for Bank Database

7. To perform a Query on SQL Conversion functions

8. To create a sports Activity table to perform an inheritance function using object based relational model

9. To create a master table to perform a SQL Triggers Function

10. To create a table of company and employee to perform a SQL Cursor operation

11. To Describe a study on "VariousTransactions operation "in DBMS

PL\SQL PROGRAMS:

1. To implement a pl\sql program to find a %type and % row type

2. To implement a pl\sql program to print the number in reverse order

3. To implement a pl\sql program to provide a white space for each word

4. To implement a pl\sql programs to perform a multiplication programs

5. To implement a pl\sql programs to find given word is palindrome or not

6. To implement a pl\sql programs to create a specification using package elements

7. Ttoimplements a pl\sql programs to perform case and case expressions functions

8. To implement a pl\sql programs to perform a Build in and User Defined Expressions

9.To implement a pl\sql programs to find an factorial of N values

10. To implement a pl\sql programs to print welcome using different loops.