

 NIIST BHOPAL		NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY		FORM NO	NIIST/A/10
		DEPARTMENT NAME: <u>COMPUTER SCIENCE AND ENGINEERING</u>		REV. NO	0
				REV. DT	30/06/2011
BRANCH	CSE	<u>LIST OF EXPERIMENTS</u>			
SEMESTER	V				
SUBJECT NAME: TOC SUBJECT CODE: CS 501					

1	Design a Program for creating machine that accepts three consecutive one.
2	Design a Program for creating machine that accepts the string always ending with 101
3	Design a Program for Mode 3 Machine
4	Design a program for accepting decimal number divisible by 2.
5	Design a program for creating a machine which accepts string having equal no. of 1's and 0's.
6	Design a program for creating a machine which count number of 1's and 0's in a given string.
7	Design a Program to find 2's complement of a given binary number.
8	Design a Program which will increment the given binary number by 1
9	Design a Program to convert NDFA to DFA.
10	Design a Program to create PDA machine that accept the well-formed parenthesis.
11	Design a PDA to accept WCWR where w is any string and WR is reverse of that string and C is a Special symbol
12	Design a Turing machine that's accepts the following language an^nc^n where $n > 0$.



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BRANCH	CSE	<u>LIST OF EXPERIMENTS</u>			
SEMESTER	V				
SUBJECT NAME: Database Management System				SUBJECT CODE: CS 502	

1	Delete duplicate row from the table.
2	Display the alternate row from table
3	Delete alternate row from table.
4	Update multiple rows in using single update statement
5	Find the third highest paid and third lowest paid salary.
6	Display the 3rd, 4th, 9th rows from table
7	Display the ename, which is start with j, k, l or m
8	Show all employees who were hired the first half of the month
9	Display the three record in the first row and two records in the second row and one record in the third row in a single sql statements
10	Write a sql statements for rollback commit and save points.
11	Write a pl/sql for select, insert, update and delete statements
12	Write a pl/sql block to delete a record. If delete operation is successful return 1 else return 0
13	Display name, hire date of all employees using cursors
14	Display details of first 5 highly paid employees using cursors
15	Write a database trigger which fires if you try to insert, update, or delete after 7'o' clock
16	Write a data base trigger, which acts just like primary key and does not allow duplicate values.
17	Create a data base trigger, which performs the action of the on delete cascade
18	Write a data base trigger, which should not delete from emp table if the day is Sunday
19	In this subject the students are supposed to prepare a small database application in complete semester like financial accounting system, Railway reservation system,institute timetable management system. Student record system, library management system, hospital management system etc.



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SEMESTER	V			REV. DT	30/06/2011
SUBJECT NAME: LAB LINUX			SUBJECT CODE: CS 505		

1	To Study basic & User status Unix/Linux Commands.
2	Study & use of commands for performing arithmetic operations with Unix/Linux.
3	Create a file called wlcc.txt with some lines and display how many lines, words and characters are present in that file.
4	Append ten more simple lines to the wlcc.txt file created above and split the appended file into 3 parts. What will be the names of these split files? Display the contents of each of these files. How many lines will be there on the last file?
5	Given two files each of which contains names of students. Create a program to display only those names that are found on both the files.
6	Create a program to find out the inode number of any desired file.
7	Study & use of the Command for changing file permissions.
8	Write a pipeline of commands, which displays on the monitor as well as saves the information about the number of users using the system at present on a file called usare.ux.
9	Execute shell commands through vi editor
10	Installation, Configuration & Customizations of Unix/Linux.
11	Write a shell script that accepts any number of arguments and prints them in the reverse order.
12	Write a shell script to find the smallest of three numbers that are read from the keyboard.
13	Write a shell script that reports the logging in of a specified user within one minute after he/she logs in. The script automatically terminates if the specified user does not login during
14	Implementation of DNS, LDAP services
15	Installation of SAMBA, APACHE, TOMCAT.
16	Study & installation of Firewall & Proxy server



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SEMESTER	V			REV. DT	30/06/2011
SUBJECT NAME: LAB PYTHON			SUBJECT CODE: CS 506		

1	To write a Python program to find GCD of two numbers.
2	To write a Python Program to find the square root of a number by Newton's Method.
3	To write a Python program to find the exponentiation of a number
4	To write a Python Program to find the maximum from a list of numbers.
5	To write a Python Program to perform Linear Search
6	To write a Python Program to perform binary search.
7	To write a Python Program to perform selection sort
8	To write a Python Program to perform insertion sort
9	To write a Python Program to perform Merge sort.
10	To write a Python program to find first n prime numbers.
11	To write a Python program to multiply matrices.
12	To write a Python program for command line arguments.
13	To write a Python program to find the most frequent words in a text read from a file.
14	To write a Python program to simulate elliptical orbits in Pygame.
15	To write a Python program to bouncing ball in Pygame.

