



**DEPARTMENT NAME: COMPUTER SCIENCE AND
ENGINEERING**

NIIST/A/10

REV.
NO

0

REV.
DT

30/06/2011

LIST OF EXPERIMENTS

SUBJECT CODE: CS 303

1	Program to input marks of 5 subjects and print the total and percentage using arrays
2	Program to read two 3x3 matrices and add them
3	Program to find whether a matrix is upper triangular or not
4	Program to find the factorial of a number using recursion
5	Program to perform the following string operations: a) Find length of entered string b) Concatenate two strings c) Copy one string to another d) Compare two strings e) Reverse the entered string f) Check whether the entered string is a palindrome
6	Program to create a stack and implement push and pop operations on it
7	Program to create a queue and implement insertion and deletion operations on it
8	Program to create a circular queue & implement insertion & deletion operations on it
9	Program to create a linked list and implement insertion and deletion operations on it
10	Program to traverse a binary tree in pre-order, in-order and post-order
11	Program to implement sorting of data using: a)Bubble sort b) Selection sort c) Insertion sort
12	Program to implement a graph and traverse it using Breadth First Search



 NIIST BHOPAL		NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY DEPARTMENT NAME: <u>COMPUTER SCIENCE AND ENGINEERING</u>		FORM NO NIIST/A/10
BRANCH CSE	SEMESTER III	<u>LIST OF EXPERIMENTS</u>		REV. NO 0
				REV. DT 30/06/2011
SUBJECT NAME: DIGITAL SYSTEM			SUBJECT CODE: CS 304	

1	To study and verify the truth tables of various Logic gates
2	To verify the properties of NAND and NOR gates as Universal Building Blocks.
3	Simplification and implementation of a Boolean function
4	Implementation of basic Boolean arithmetic logic circuits such as Half-adder, Half-subtractor, Full adder and Full subtractor
5	Conversion from Binary to Gray and Gray to Binary code
6	To construct a binary multiplier using combinational logic and to verify with the truth table
7	To verify 2-bit Magnitude comparator for all possible conditions
8	Generation of various logical functions using 8-to-1 multiplexer
9	Construction of a 4-bit ripple counter and study of its operation
10	Operation of IC-555 Timer as Monostable, Astable and Bistable multivibrators
11	Design and implementation of various types of flip-flops using JK flip-flop



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				REV. DT	30/06/2011
BRANCH	CSE	<u>LIST OF EXPERIMENTS</u>			
SEMESTER	III				
SUBJECT NAME: OOPM		SUBJECT CODE: CS 305			

1	Write a program in C++ to implement a class COMPLEX class with two private data members rp,ip and two public methods read() and print().
2	Write a program in C++ that creates a class student containing roll number, name & semester as private data of class. Create two public functions set_data() and show() to store and show values of an object. Accept values of three object and display them.
3	Create a class called time that has separate int member data for hours, minutes & seconds. One constructor should initialize this to 0 and another should initialize it to fixed values. A member function should display it in HH:MM:SS format. The final member function should add two objects of time passed as arguments
4	Write a Program in C++ to create a class clock with private members hours min and sec . with public default constructor clock() to get the system time and print method to display clock
5	WAP to create a base class which is inherited as public by a derived class. This derived class is further inherited as public by yet another derived class. Use constructor & destructor function in each class to demonstrate the rule of derivation in hierarchical classes Function.
6	Create a class distance. Create d1,d2,&d3 as objects of distance. Write a c++ program to read the distance d1&d2 in the form of feet and inches. Add them and store the result in distance d3 finally print the value of distance d3.
7	WAP in C++ to read the content of one file and copy it in another file
8	Program to open a file whose name is passed as command line argument and display its contents on output device and find the size of file in bytes.
9	Create a class string to accept a string whose length is not known accepts and display the string using extractor and inserter functions.
10	Write a program in c++ to demonstrate the dynamic binding using virtual functions. Create a class person having private data members name, age and two virtual functions read(), print(), and a pure virtual function isoutstanding() Create two derived classes student and employee that implements these virtual functions and pure virtual function.



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BRANCH CSE	SEMESTER III	<u>LIST OF EXPERIMENTS</u>		REV. NO 0
				REV. DT 30/06/2011
SUBJECT NAME: COMPUTER WORKSHOP (JAVA)			SUBJECT CODE: CS 306	

1	Installation of J2SDK
2	Write a program to show Scope of Variables
3	Write a program to show Concept of CLASS in JAVA
4	Write a program to show Type Casting in JAVA
5	Write a program to show How Exception Handling is in JAVA
6	Write a Program to show Inheritance
7	Write a program to show Polymorphism
8	Write a program to show Access Specifiers (Public, Private, Protected) in JAVA
9	Write a program to show use and Advantages of CONTRUCTOR
10	Write a program to show Interfacing between two classes
11	Write a program to Add a Class to a Package
12	Write a program to show Life Cycle of a Thread
13	Write a program to demonstrate AWT
14	Write a program to Hide a Class
15	Write a Program to show Data Base Connectivity Using JAVA
16	Write a Program to show "HELLO JAVA " in Explorer using Applet
17	Write a Program to show Connectivity using JDBC
18	Write a program to demonstrate multithreading using Java.
19	Write a program to demonstrate applet life cycle
20	Write a program to demonstrate concept of servlet

