

APPENDIX-I

WEEK NO.	PROBLEMS WITH THE DESCRIPTION	PAGE NO.	SIGNATURE OF THE TEACHER WITH DATE
1	1# Open a new document and type the following letter i) Save the document as "Letter.doc." ii) Send the document to 3 recipients using Mail merge. (Use 3 different addresses) iii) Define a Macro 'Decorate' ----- iv) Close the document.		
	2# Create a table in word as shown below: i) In the total marks' column, ----- ii) Insert a new row at the end of the table and also find grand total using formula. iii) Sort the table based on total marks. iv) The date and heading should be centre aligned. v) Heading should be in bold and underlined.		
	3# Using a spreadsheetSave it as Salary advice. i) Housing Subsidy 6000.00 per year. ii) Car Allowance 100.00 per month, iii) Pension 8% on Basic Salary. iv) Medical Aid 70.00 v) U.I.F. 1% on Basic Salary + Housing Subsidy vi) Calculate Net Salary. vii) Format all figures to two decimal places and insert ₹ currency symbol. viii) Insert a custom footer with your name, subject, and question number. Save it as salary advice2.		
	4# Use a new workbook & construct a worksheet with the data given & save it as LYONS. i) The MARKUP % (35%) must be inserted in a ----- ii) Calculate the mark up for each item. iii) Calculate the selling price for each item. iv) Calculate the Total Income for each item. v) Calculate the profit for each item. vi) Format the column LITRES SOLD ----- vii) Use statistical functions to calculate the---- viii) Show all formulas you have used in a new sheet ix) Under the worksheet Create a pie chart x) Put borders neatly on the on the work sheet & save it as LYONS2.		

2	1#	Design Seasonal Greeting cards using MS-Power Point.		
	2#	Design a AMU Magazine cover in MS-Power Point. Use the following: i) Select a theme for the page ii) Insert either a picture or clipart iii) Use WordArt		
	3#	Design a poster inviting all students of your department to the IT Fest (using MS-Power Point).		
	4#	Create a 5-slide presentation on any topic. Use Images, Graphs, Chart, Tables, Animation, Time, Bullets, Transition, Sound, Hyperlink, Background template, Header and Footer (using MS-Power Point).		
	5#	Create a 5-slide presentation on any topic. Use Images, Graphs, Chart, Tables, Animation, Time, Bullets, Transition, Sound, Hyperlink, Background template, Header and Footer (using MS-Power Point).		
3	1#	Dev C++ IDE: Installation, Features and C++ Development i) Development Using Dev-C++ IDE ii) Configuring Dev C++ iii) Change Linker Setting for Debugging iv) Create a New Project v) Add Source File(s) vi) Compile/Build & Execute Project vii) Debugging In C++ IDE		
	4	1# Write a C++ program to check whether a number is even or odd using ternary operator.		
4	2#	Write a C++ program to perform the addition of two numbers without using + operator.		
	3#	Write a C++ program to evaluate the arithmetic expression $((a+b/c*d - e) * (f - g))$. Read the values a, b, c, d, e, f, g from the standard input device.		
	4#	A Fibonacci sequence is defined as follows: The first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence. Write a C++ program to generate the first n terms of the sequence.		
	5#	Write a C++ program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.		
	6#	A character is entered through keyboard. Write a C++ program toThe following table shows the range of ASCII values for various characters.		

	7#	Write a C++ program to find the roots of a quadratic equation.		
	8#	Write a C++ program to check whether a given 3 digit number is Armstrong number or not.		
5	1#	Write a C++ program to enter elements in the array and display the array elements.		
	2#	Write a C++ program to find the sum of the all-array element.		
	3#	Write a C++ program to find the length of the array		
	4#	Write a C++ program to find the second-largest integer in a list of integers.		
	5#	Write a C++ Program to reverse the position of the array element (Hint: First element to the last element.)		
	6#	Write a C++ program to perform the following: a. Addition of two matrices b. Multiplication of two matrices		
	7#	Write a C++ program to count and display positive, negative, odd and even numbers in an array		
	8#	Write a C++ program to merge two sorted arrays into another array in sorted order.		
	9#	Write a C++ program to find the frequency of a particular number in a list of integers		
6	1#	Write a C++ Program for Add Two Numbers Using Pointer.		
	2#	Write a C++ Example Program for Swap Numbers Using Pointers.		
	3#	Write a C++ Program to Print the address of the Variable Using a Pointer.		
	4#	Write a C++ Program for Increment and Decrement Integer Using Pointer.		
	5#	Write a C++ Program for Print String Using Pointer.		
	6#	Write a C++ program to concatenate two strings using pointers.		

	7#	Write a program for reading elements using a pointer into an array and display the values using an array. i. Declare a set of elements. ii. Declare the pointer and initialize it to the first element address of a set of elements(array).		
	8#	Write a program through a pointer variable to the sum of n elements from the array.		
	9#	Write a program for reading elements using a pointer into the array and display the values using an array.		
	10#	Write a C++ program to reverse a string using pointers.		
7	1#	Write a C++ Program for Count vowels String Using Pointer		
	2#	Write a C++ Program for Length of String Using Pointer.		
	3#	Write a C++ program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of n real numbers..		
	4#	Write a C++ program to create three objects for a class named ptr_obj with data members such as roll_no & name. Create a member function set_data() for setting the data values and print() member function to print which object has invoked it using the 'this' pointer		
	5#	Develop a C++ program to find the greatest of two numbers using this pointer which returns the member variable.		
	6#	Write a C++ program to implement flight class with data member as flightno., source destination and fare. Write a member function to display the flight information using this pointer.		
	7#	Write a C++ program to use this pointer and return the pointer reference.		
8	1#	Write a C++ program that uses functions to perform the following operations: i) To insert a sub string into a given main string from a given position. ii) To delete n characters from a given position in a given string.		
	2#	Write a C++ program to determine if the given string is a palindrome or not.		

	3#	Write a C++ program to find a string within a sentence and replace it with another string.		
	4#	Write a C++ program that reads a line of text and counts all occurrence of a particular word.		
	5#	Write a C++ program that displays the position or index in the string S where the string T begins, or 1 if S doesn't contain T.		
9	1#	Write C programs that use both recursive and non-recursive functions to find: i) The factorial of a given integer. ii) To find the greatest common divisor of two given integers.		
	2#	Write C programs that use both recursive and non-recursive functions to solve towers of Hanoi problem.		
	3#	Write a C++ program to print the transpose of a given matrix using function.		
	4#	Write a C++ program to swap two number by both call by value and call by reference mechanism, using two functions swap_value() and swap_reference respectively, by getting the choice from the user and executing the user's choice by switch-case		
	5#	Write a C++ program to display all array elements using recursion.		
	6#	Write a C++ program to find sum of elements of array using recursion.		
	7#	Write a C++ program to find maximum and minimum elements in array using recursion.		
	8#	Consider the insurance database given below. The primary keys are made bold and the data types are specified. i) Create the above tables by properly specifying the primary keys and foreign keys. ii) Enter at least five tuples for each relation. iii) Update the damage amount for the car with specific regno in the accident with report number 12 to 25000. iv) Add a new accident to the database. v) Find the total number of people who owned cars that were involved in accidents in the year 2008. vi) Find the number of accidents in which cars belonging to a specific model were involved.		
10	1#	Write a C++ program that uses functions to perform the following operations: i) Reading a complex number		

		ii) Writing a complex number iii) Addition and subtraction of two complex numbers iv) Multiplication of two complex numbers		
	2#	Write a C++ program to compute the monthly pay of 100 employees using each employee's name, basic pay. The DA is computed as 52% of the basic pay. Gross-salary (basic pay + DA). Print the employees name and gross salary.		
	3#	Create a Book structure containing book_id, title, author name and price. Write a C++ program to pass a structure as a function argument and print the book details.		
	4#	Create a union containing 6 strings: name, home_address, hostel_address, city, state and zip. Write a C++ program to display your present address.		
	5#	Write a C++ program to define a structure named DOB, which contains name, day, month and year. Using the concept of nested structures display your name and date of birth.		
	6#	Consider the following database for a banking enterprise. i) Create the above tables by properly specifying the primary keys and foreign keys. ii) Enter at least five tuples for each relation. iii) Find all the customers who have at least two accounts at the main branch. iv) Find all the customers who have an account at all the branches located in a specific city. v) Demonstrate how you delete all account tuples at every branch located in a specific city		
11	1#	Write a program in C++ to display your name, Branch, Year on to the computer screen without using classes and object. All information should be displayed in the separate line.		
	2#	Write a menu driven program in C++ to perform all basic arithmetic the keyboard and display particular result of the required operation.		

	3#	Write a menu driven program in C++ that receives 4-digit integer value the keyboard and perform following operations: i) Reverse of that no. ii) sum of number with its reverse. iii) sum of alternative digits (1 digit+3 digit and 2 digit+4 digit)		
	4#	Write a menu driven program in C++ to receive integer number and convert equivalent binary, octal, hexadecimal number.		

	5#	Write a menu driven program in C++ to perform all basic Program receives two values and required operation to be performed from the keyboard and display particular result of the required operation.	
	6#	Define a class Bank Account to represent a bank account. Include the following members:	
12	1#	Write a program in C++ to demonstrate default constructor. value and display these values with the help of member function.	
	2#	Write a program in C++ to demonstrate parameterized/.....arithmetic operation over these values and display results on to the computer screen.	
	3#	Create a class called The first is hypo (), which returns the length of the hypotenuse. The second is area (), which returns the area of the triangle.	
	4#	Create a class for counting the number of objects created and destroyed within various block using constructor and destructors.	
	5#	Create an inter University Database with the following relations. Include at least four attributes for each table. Create above tables and mention primary keys and foreign keys. Also create secondary index for each table. b) Insert at least 5 relevant records in each of the created tables. c) Write following SQL queries based on above created database: i) List of Universities situated at Delhi. ii) List of all Departments of AMU. iii) Find the location of JNU. iv) List of all Programs run by University of Jammu. v) List of Universities that run Program "MCA". vi) List of Courses of "MCA" run by AMU. vii) List of Faculties specialized in "Information Security" across different universities. viii) Syllabus of "Computer Architecture" of different Universities.	
13	1#	Declare a class Number that contains two data member value1 and [hint- binary operator overloading using member function]	
	2#	Declare a class Number1 that contains two data member value1 and value2operator respectively [hint- binary operator overloading using friend function]	
	3#	Declare a class Number3 that contains a data member value of the type..... -, ++, -- operator respectively [hint- Unary operator overloading using member function]	

	4#	Write a program to demonstrate explicit type conversion o from basic type to user defined data type. o from User Defined data type to Basic data type data type.		
	5#	Create a class publication which has title of book and writers name. Create other class sales which account no. of sales for every month (upto 3 months) and then calculate total sales.		
	6#	Write a program to demonstrate the following:		
	7#	Write a program to solve the ambiguity problem in inheritance How this problem is solved with the help of virtual base class concept.		
14	1#	Write a program to use And then define a function elder to compare ages of two different persons using this pointer to find out the elder person.		
	2#	Create a simple “shape” hierarchy: a If your debugger supports it, single-step through the code.		
	3#	Write a small program to show the difference between calling a..... The program should prove that the two calls produce different results		
	4#	Write a program in C++ to calculate mean value of n numbers using friend function.		
	5#	Write a program to accept five the average of these numbers by passing object of the class to friend function.		
	6#	Write a program in C++ to display student’s information using friend function.		
	7#	Write a C++ program to Display the contents of the file in reverse order.		
	8#	Write a C++ program to count the no. of characters present in the file.		
	9#	Create a class with a main () that throws an object of class Add a finally clause and print a message to prove you were there.		