Write a C++ program to reverse a significant t		
1	any number of digits) and output M as well as its reverse.	
2	Write a C++ program to calculate $Sin(x)$, by summing the terms of the sine series given below. N is the number of terms to be summed and x is real number specifying an angle in radians. Also check the result of your calculation with that of the standard library function $sin()$. $Sin(x) = x - \frac{x3}{3!} + \frac{x5}{5!} - \frac{x7}{7!}$ up to N terms	
3	Write a C++ program to generate the first N terms(N>=1) of the Fibonacci series 0, 1, 1, 2, 3, 5	
4	Write a C++ program to count the no of vowels in a given line of text. Output the line of text and the number of vowels in it.	
5	Define a class NUMBER_LIST having the following specifications: Private data member: num_list-an array of integers capable of storing maximum 10 numbers. Public member functions: read_list()- to read N(N<=10) numbers in the array num_list. calc_product()-to compute the product of the numbers in the array and display the numbers and their product.	
6	Write a C++ program to create an array of maximum size 10 and storing integer values. Input N (N<=10) numbers into the array. Process the array to find and output the largest and the smallest numbers from the array as well as all the values in the array.	
7	Write a C++ program to transpose a m x n matrix of integers, where (m!=n) and output the original input matrix and its transpose.	
8	Define a class with two private data members d1 and d2 of type double and one private member function smaller(), that returns the smaller of the two values. Define two public member functions as follows: get-data(double,double)- to assign values to the data members. put_data() - to display the data values and the smaller of the two values by calling smaller().	
9	Define a class BASE having one private data member num1 and one public data member num2 both of type float. Define public member functions: input_data()- to read data value num1. get_num1()- to return the value of num1 Extend class BASE to another class DERIVED using public derivation. Define for class DERIVED, a private data member sum which is to be calculated by adding num1 and num2 and a public member function: get_data()- to read num2 and to call input_data() for reading value to and to compute sum. show_data()- to output num1, num2 and sum Write a main() to create object of type DERIVED and input and output all data.	

10	Write a C++ program to create two text files named: COUNTRY and CAPITAL to store names of n countries and their corresponding capitals. Then read the files to display the names of their countries and their capitals in a neat tabular form.

	I One
l	Write a menu driven program in C++ to create an array of N integers sorted in ascending order and to search for a given value in the array using Binary Search algorithm.
2	Write a C++ program to input two arrays A and B of integers, both sorted in ascending order. Merge A and B to obtain a third array C, such that C is also in ascending order. Output all the arrays A, B and C
3	Write a C++ program to input two matrices having integer elements – M1 of order (m x n)and M2 of order (n x p) and obtain the product matrix P. Output all the three matrices M1, M2 and P.
4	Write a menu driven program in C++ to create an array of N numbers and to sort the array in ascending order using Bubble Sort technique. Output the array before and after sorting.
5	Write a menu driven program in C++ to create an array of N numbers and to sort the array in ascending order using Selection Sort technique. Output the array before and after sorting.
6	Write a menu driven program in C++ to create an array of N numbers and to sort the array in ascending order using Insertion Sort technique. Output the array before and after sorting.
7	Write a menu driven program in C++ to push and pop a value in a linked stack storing float point numbers. Display the contents of the stack after each operation.
8	Write a menu driven program in C++ to add and remove a value in a linked queue storing float point numbers. Display the contents of the queue after each operation.
9	Write a menu driven program in C++ to create and display a linked list having N nodes, where the data part consist of empcode- integer empname- of maximum length 20 characters basic_pay- float allowance- float
	The output should be in a neat tabular form as shown below:

	Sr.No Emp Code Emp Name Basic Pay Allowance Total 1 101