Sr No	Title	Date	Page No.	Marks	Sign
1.	Basics of programming				
2.	 2.1 Write a program to calculate the area of circle, rectangle and square using function overloading. 2.2 Write a program to demonstrate the use of default arguments in function overloading. 2.3 Write a program to demonstrate the use of returning a reference variable. 				
3.	3.1 Create a class student which stores the detail about roll no, name, marks of 5 subjects, i.e. science, Mathematics, English, C++. The class must have the following:• Get function to accept value of the data members.• Display function to display values of data members.• Total function to add marks of all 5 subjects and store it in the data members named total.				
	3.2 Create a function power() to raise a number m to power n. the function takes a double value for m and int value for n, and returns the result correctly. Use the default value of 2 for n to make the function calculate squares when this argument is omitted. Write a main that gets the values of m and n from the user to test the function. 3.3 Write a basic program which shows the use of scope resolution operator.				
4.	 3.4 Write a C++ program to swap the value of private data members from 2 different classes. 4.1 Write a program to illustrate the use of this pointer. 				
	4.2 An election is contested by five candidates. The candidates are numbered 1 to 5 and the voting is done by marking the candidate number on the ballot paper. Write a program to read the ballots and count the votes cast for each candidate using an array variable count. In case a number is read outside the range of 1 to 5, the ballot should be considered as a 'spoilt ballot' and the program should also count the number of spoilt ballots.				

	4.3 Write a program to call member functions of			
	class in the main function using pointer to object and			
	pointer to member function.			
5.	5.1 Using friend function find the maximum number			
	from given two numbers from two different classes.			
	Write all necessary functions and constructors for			
	the program.			
	5.2 Using a friend function, find the average of three			
	numbers fromthree different classes. Write all			
	necessary member functions and constructor for the			
	classes.			
	5.2 Define an annual and the contains an annual and			
	5.3 Define currency class which contains rupees and			
	paisa as data members. Write a friend function			
	named AddCurrency () which add 2 different			
	Currency objects and returns a Currency object. Write parameterized constructor to initialize the			
	values and use appropriate functions to get the			
	details from the user and display it.			
	details from the user and display it.			
	5.4 Create Calendar class with day, month and year			
	as data members. Include default and parameterized			
	constructors to initialize a Calendar object with a			
	valid date value. Define a function AddDays to add			
	days to the Calendar object. Define a display			
	function to show data in "dd/mm/yyyy" format.			
6.	6.1 Create a class named 'String' with one data			
	member of type char *, which stores a string. Include			
	default, parameterized and copy constructor to			
	initialize the data member. Write a program to test this class			
	tills class			
	6.2 Write a base class named Employee and derive			
	classes Male employee and Female Employee from			
	it. Every employee has an id, name and a scale of			
	salary. Make a function ComputePay (in hours) to			
	compute the weekly payment of every employee. A			
	male employee is paid on the number of days and			
	hours he works. The female employee gets paid the			
	wages for 40 hours a week, no matter what the			
	actual hours are. Test this program to calculate the pay of employee.			
	6.3 Create a class called scheme with scheme_id,			
	scheme_name, outgoing_rate, and message charge.			
	Derive customer class form scheme and include			
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	cust_id, name and mobile_no data.Define necessary		
	functions to read and display data. Create a menu		
	driven program to read call and message		
	information for a customer and display the detail		
	bill.		
7.	7.1 Write a program with use of inheritance: Define		
	a class publisher that stores the name of the title.		
	Derive twoclasses book and tape, which inherit		
	publisher. Book class contains member data called		
	page no and tape class contain time for playing.		
	Define functions in the appropriate classes to get		
	and print the details.		
	and print the details.		
	7.2 Create a class account that stores customer		
	name, account no, types of account. From this derive		
	classes cur_acc and sav_acc to include necessary		
	member function to do the following: • Accepts		
	deposit fromcustomer and update balance•		
	Compute and Deposit interest• Permit withdrawal		
	and Update balance.		
	7.3 Write a base class named Employee and derive		
	classes Male employee and Female Employee from		
	it. Every employee has an id, name and a scale of		
	salary. Make a function ComputePay (in hours) to		
	compute the weekly payment of every employee. A		
	male employee is paid on the number of days and		
	hours he works. The female employee		
9.	9.1 Create a class MARIX of size mxn. Overload + and		
	-operators for addition and subtraction of the		
	MATRIX.		
	9.2 Define a class Coord, which has x and y		
	coordinates as its data members. Overload ++and -		
	operators for the Coord class. Create both its prefix		
	and postfix forms.		
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	9.3 Create one class called Rupees, which has one		
	member data to store amount in rupee and create		
	another class called Paise which has member data to		
	store amount in paise. Write a program to convert		
	one amount to another amount with use of type		
	conversion		
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	9.4 Create two classes Celsius and Fahrenheit to		
	store temperature in terms of Celsius and Fahrenheit		
	respectively. Include necessary functions to read and		

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	display the values. Define conversion mechanismto	
	convert Celsius object to Fahrenheit object and vice	
	versa. Show both types of conversions in main	
	function.	