	Basic Expression and arithmetic operation Program					
	Lab-1					
1.	Write a program to print "Hello World" message.					
2.	2. Write a program to print Name, Address and Birth Date.					
3.	3. Write a program to add, multiply and divide two integers and float numbers.					
4.	Write a program to find area of a rectangle.(Area=I*b)					
5.	5. Write a program to find volume of cube.(Area=I*b*h)					
6.	Write a program to find area of triangle.(Area=(I*b)/2)					
	Lab-2					
7.	Write a program in C to convert the given temperature from Fahrenheit to Celsius using the formula $C = (F - 32) / 1.8$					
8.	Write a program convert temperature from Celsius to Fahrenheit where temperature in Celsius is entered by user. $(C = 5/9 (f - 32))$					
9.	Write a program to calculate area of circle.(pi*r*r)					
10.	Write a program in C to find the Circumference of a circle.(2*pi*r)					
11.	Write a program in C to calculate simple interest using formula SI = (P*R*N) / 100.					
	Lab-3					
12.	Write a program in C to display sum from 1 to N using the formula N(N+1)/2.					
13.	Write a program that reads the radius of sphere "r", then it calculates its volume "V" and surface area "A" using formulas. (pi*r*r*4)/3					
14.	Write a C program to obtain an hourly pay rate and the number of hours worked by workers. Calculate their pay for the week.					
15.	Write a C program to find out the area of right angle triangle using formula area = $\frac{1}{2}$ * base * height.					
16.	Write a C program to find out compound interest using following formula Compound Interest = $P * (1 + r / 100)^n$ - P.					
	Lab-4					
17.	Write a C program to read a floating point number from user and then display the right most digit of the integral part of the number.					
18.	Write a C program to read the distance between two cities in KM. and print that distance in meters, feet, inches and centimeters.					
19.	Write a C program to convert angle in degrees to radians using formula angle in radians = (angle in degrees * ∏) / 180.					
20.	Write a program to accept number of days and print year, month and remaining days.					
21.	Write a C program to read a price of an item in (float) like 10.25 and print output in (int) paisa like1025.					
22.	Write a C program to read number and display in the form of Hour, Min and Seconds.					

or zero.						
or zero.						
or zero.						
integer values						
sponding day						
ring.						
8.						
Student should fulfill the following criteria for admission:  Mathematics >= 50						
Mathematics >= 50 Physics >= 45 Chemistry >= 60 Total of all subject >= 170 OR						
Total of Mathematics + Physics >= 120						
Accept the marks of all the three subjects from the user and check if the student is eligible for admission.						
should display						
benefit of						

		Levels				erks		
		_	C	onveyance Allowa	nce	Entertainm		<i>r</i> ance
		1		1000			500	
		2		750			200	
		3		500				
		4		250			0	
	Incom	ome tax is deducted from the salary on a percentage basis as follows.						
				Gross Salary	Tax	Rate		
				Gross <= 2000	No I	Deduction		
				2000 to 4000	3%			
				4000 to 5000	5%			
				Gross > 5000	8%			
	Write	a program	that wil	at will read an executive's job number, level number and basic p				er and basic pay
	and th	en compu	te the n	the net salary after withholding (deducting) Income tax.				e tax.
		•		+ Perks ( HRA = 10%	6 of Ba	asic)		
_				Income Tax				
34.	An Ele	ctric powe	tric power Distribution Company charges its consumers					
			Consumption Unit Rate of Charges					
			For First 50 Units Rs 2.30					
			Next 50	) Units		Rs 2.60		
			Next 150 Units Rs 3.25					
			More than 300 Units Rs 4.35					
	Write	a nrogram	to take	no of units consu	med f	rom user and	l calculate	e the hill
	Amou		ro take	The of arms consu	iica i	Tom aser and	Carcarace	
35	Write	a program	in C for	grade calculation	using	ifelse if lado	der and sv	witch statement.
	Accep	t marks of 3 subjects, calculate total and based on it calculate grade.				ade.		
	Total g	greater or	equal to	than 80		G	rade A+	
	Total g	greater or	equal to	than 70 and less	han 8	30 G	rade A	
	Total g	greater or	equal to	than 60 and less	han 7	70 G	rade A–	
	Total g	greater or	equal to	than 50 and less	than 6	60 G	rade B+	

36. Write a program in C to display a sum of first N even numbers.  37. Write a program in C to find out factorial of a given number.  38. Write a program in C to display a sum from 1 to given number.  1) Using formula n(n+1)/2. 2) Without using Formula.  39. Write a program to Print multiplication table of given number entered by user.  40. Write a program to check whether the given number is prime or not.  1ab-9  41. Write a program to accept numbers from the user till their sum exceeds 50.  42. Print first 50 odd numbers. Note that program should display only five numbers peline.  43. Write a C program to read 4-digit number and print the sum of first and last digit of the number.  44. Write a program to find sum of all digits of given number.  45. Write a program to find sum of all digits of given number.  46. Write a Program for frequency count for following number.  E.g. 12,12,4,6,6,6,7,7  Output is: The frequency of 12 is 2  4 is 1  5 is 1  6 is 3  7 is 2  47. Write a program to find out and print all prime numbers lying between 1 to 200.  48. To check whether the given number is valid binary or not.  49. To check whether the given number is valid octal or not.  50. Write a program generate Sum of two binary numbers.  10. Lab-11  11. To check whether the given number is palindrome or not.  12. Write a program to check whether number is Armstrong or not.  33. Write a program to convert decimal to binary.  44. Write a program to convert decimal to binary.  45. Write a program to convert decimal to binary.  46. Write a program to convert decimal to beadecimal.		Control Statement
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Lab-12  56. Write a program to convert decimal to hexadecimal.	54.	·
56. Write a program to convert decimal to hexadecimal.	55.	Write a program to convert decimal to octal.
		Lab-12
57 Write a program to display a table of appropriate from School bitto Calairy School bit	56.	Write a program to convert decimal to hexadecimal.
57. I write a program to display a table of conversion from Fahrennelt to Ceisius. Fahrennel	57.	Write a program to display a table of conversion from Fahrenheit to Celsius. Fahrenheit
should start with 0 incremented by 20 and maximum value is 160.		should start with 0 incremented by 20 and maximum value is 160.
58. Write a program to print all the numbers and sum of all the integers that are greater	58.	Write a program to print all the numbers and sum of all the integers that are greater
than 100 and less than 200 and are divisible by 7.		than 100 and less than 200 and are divisible by 7.
59. Write a program to accept amount paid as number (integer) and display it in words.	59.	Write a program to accept amount paid as number (integer) and display it in words.
(e.g. Rs 1541 in word : One Thousand Five Hundred Fourty One ). Consider user will		(e.g. Rs 1541 in word : One Thousand Five Hundred Fourty One ). Consider user will
enter more than 999 and less than 9999.		enter more than 999 and less than 9999.
60 Write a program to find greatest common divisor [GCD] for two positive intege	60	Write a program to find greatest common divisor [GCD] for two positive integer
numbers.	=	
61. Write a program to find least common multiplier [LCM] for two positive integers.	61.	

				Lab-1	3, 14,	15, 16	(Nes	sted lo	oop)			
61.	1	2	3	4			62.	1	2	3		
	1	2	3	4				4	5	6		
	1	2	3	4				7	8	9		
	1	2	3	4								
63.	*						64.	*				
	**							**				
	***							***				
	****							****				
65.		*					66.	1				
	:	* *						12				
	*	* *						123	3			
	*	* * *						123	4			
	* *	* * *										
67.		1					68.	555	5 5			
	2							4 4				
		3 3							3 3			
		144							2 2			
		5 5 5							1			
69.	\$\$\$\$\$						70.	\$\$\$\$\$	\$			
	\$\$\$\$							\$\$\$\$				
	\$\$\$							\$\$\$				
	\$\$							\$\$\$ \$\$ \$				
	\$							\$				
71.	1						72.	1				
	23							12				
	456							123				
	7891							1234				
73.	1	2	3	4			74.	1	2	3	4	
	5	6	7					1	2	3		
	8	9						1	2			
	10							1				
75.	1	2	3				76.	9	8	7		
		5	4					6	5	4		
77	6		6				70	3	2	1		
77.	6	5	4				78.	1	1			
		2	3 1					12	21			
			Т					123	321 4321			
61.	1	2	3	4			62.	1	2	3		
01.	1	2	3	4			02.	4	5	5 6		
	1	2	3	4				7	8	9		
	1	2	3	4				,	J	Э		
	1	_	J	4								
	l						l	l				

	di.	T	T
63.	*	64.	*
	**		**
	***		***
	***		****
65.	*	66.	1
	* *		12
	* * *		123
	* * * *		1234
	* * * *		
67.	1	68.	55555
	2 2		4 4 4 4
	3 3 3		3 3 3
	4444		2 2
	5 5 5 5 5		1
69.	\$\$\$\$\$	70.	\$\$\$\$\$
	\$\$\$\$		SSSS
	\$\$\$		SSS
	\$\$		ŚŚ
	\$		\$\$\$\$ \$\$\$ \$\$ \$\$
71.	1	72.	1
	23		12
	456		123
	78910		1234
73.	1 2 3 4	74.	1 2 3 4
75.	5 6 7	′ ′′	1 2 3
	8 9		1 2
	10		1
75.	1 2 3	76.	9 8 7
75.	5 4	70.	6 5 4
	6		3 2 1
77.	6 5 4	78.	1 1
//.	2 3	76.	12 21
	1		123 321
	1		123 321
79.	1	80.	A
/ 3.	1   A B	80.	A B
	123		ABC
	ABCD		ABCD
	12345		ABCDE
		]	

0.4	*	0.3	*
81	**	82	**
	***		* *
	****		* *
	****		* *
	*****		* *
	****		* *
	****		* *
	***		* *
	**		**
	*		*
83	* * * * *	84	* *
	* *		** **
	* *		*** ***
	* *		*****
	* * * * *		
85	Write a program of Pascal triangle.	86	a b c d e
	1		abcd
	1 1		a b c
	1 2 1		a b
	1 3 3 1		a
	1 4 6 4 1		
87	1	88	1
	0 1		13
	1 0 1		135
	0 1 0 1		1357
	1 0 1 0 1		n
89.	1 4 9 16 25	90.	A a A
	1 4 9 16		a A a
	1 4 9		A a A
	14		
	1		
91	a b c	92	1
	d e f		212
	g h i		32123
			432123 4
93	* * * * * *	94	* * * * * *
	* * * * * *		* * * * * *
	* * * *		* * * *
	* *		* *
			* * * *
			* * * * * *
			* * * * * *
<u> </u>			

	Series (Lab-17,18,19)					
	Find out the Sum of following series					
95.	1+2+3++n					
96.	2+4+6++n					
97.	1+3+5+7++n					
98.	12 + 22 + 32 + 42 + 52++n					
99.	22 + 42 + 62 + 82 ++n					
100.	22 - 42 + 62 - 82 +					
101.	1 <sup>2</sup> +2 <sup>2</sup> +3 <sup>2</sup> +4 <sup>2</sup> +n <sup>2</sup>					
102.	1 +4 -9 +16 -25 +36+n <sup>2</sup>					
103.	1! +2! +3! +4! +n!					
104.	1/1! +1/2! +1/3! +1/n!					
105.	1/22 + 1/42 + 1/62 + 1/82 ++n					
106.	X + X^2/2! + X^3/3! + X^4/4! ++n					
107.	X + X^3/3! + X^5/5! + X^7/7! ++n					
108.	x +x^2 +x^3 +x^4 ++x^n					
109.	1 +2 +4 +8 +16 +32 +n terms					
110.	1 +1/4 +1/9 +1/16 +n terms					
111.	1/1 <sup>2</sup> -1/2 <sup>2</sup> +1/3 <sup>2</sup> -1/4 <sup>2</sup> +n terms					
112.	$S=x + (x^2/2!) + (x^4/4!) + (x^6/6!) + + (x^n/n!)$					

	Array Examples					
	Lab-20					
113.	Write a program to print sum of any 10 numbers using 1-D array.					
114.	Write a program to find maximum and minimum element from 1- Dimensional					
	array.					
115.	Write a program to perform selection sort using 1-D array.					
116.	Write a program to perform bubble sort Using 1-D Array.					
117.	Write a program of linear and binary search.					
	Lab-21					
118.	Write a program to insert an element in 1-D array at specified place.					
119.	Write a program to delete an element from 1-D array.					
120.	Write a program to swap even position number with odd position.					
121.	Write a program to Read n x n matrix. Print the original matrix and its transpose.					
122.	Write a Program to Read <b>n x n</b> two matrices A and B and find sum and					
	multiplication.					
	Lab-22					
123.	Write a program in C to enter marks of 10 students. Count how many students have					
	secured marks above 80 and below 40.					
124.	An election is contested by 5 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 in C to read the ballots and count the votes cast for each candidate using					
	an array variable count. In case a number read is outside the range 1 to 5, the ballot					
	should be considered as a spoilt ballot and the program should also count the					
	number of spoilt ballots.					
125.	Write a program to convert a decimal number to any base(binary/octal/hexadecimal					
	etc.)					

126.	Write a program to check whether the given square Matrix is Magic Matrix or Not.(If sum of all rows, columns and both diagonals are same then it is called Magic Matrix)
	String Examples
	Lab-23
127.	Write a program to find string length
	1) Using String function strlen() and 2) Without Using String Function.
128.	Write a program to print character with the ASCII code from 0 to 255.
129.	Write a program to copy one string to another without using strcpy() library
	function.
130.	Write a program to string compare case-sensitive.
131.	Write a program to string compare case-insensitive.
	Lab-24
132.	Write a program that will read a single word and rewrite it in the alphabetical order.
	I.e. the word STRING should be written as GINRST.
133.	Write a program to count vowels using switch case and getch() function.
134.	Write a program to count word in sentence.
	Enter String: I am fine
	Output: 3
135.	Write a program to find character in string.
	Input:
	Enter String : I am fine
	Enter Character : m
	Output:
	Character position : 4
	Or Character Net formed
	Character Not found
136.	Note: if character is not found than output will be
130.	Write a program to replace character from given string.
	Input: Enter String: I am fine
	Find : am
	Replace : are
	Output :
	I are out
	Lab-25
137.	Write a program to delete character from given string.
138.	Write a program to find string is palindrome or not.
139.	Write a program to append a string.[add one string into another] without using
	strcat() function.
140.	Write a program to insert a word in specific position within given string.
141.	Write a program to find a word in a string. If found than display starting position of
	Word otherwise it will display Not found.
	Lab-26
142.	Write a program to delete a given word from a string entered by user.
	Enter String: I am fine
	Enter Word : am
	Output string: I fine

143	Write a program to calculate the total number of capital, small and special character
143	from String.
144	Write a program Convert all lower-case character into their upper-case equivalent
	and all upper-case character into their lower-case equivalent.
145	Write a program that search an item from array of string.
146	Write a program that will read a sentence and count all occurrences of a particular
	word.
	Enter String: This is Class Room. This is my pen.
	Output :
	This: 2
	is = 2
	Class = 1
	Room = 1
	pen = 1
	Lab-27
147	
	E.g. if person name is "Anil Dhirubhai Ambani" then the initial is ADA.
148	, ,
110	character array.
149	1 0 00
	Function
	Lab-28
150.	Write a program in C to generate Fibonacci series with recursive function.
151.	Write a program of binary search using recursion.
152.	Write a program to find GCD of given two Numbers using Recursion.
153.	Write a program in C to find factorial of a given number using recursion.
154.	Write a program in C for a function prime( ) that returns 1 if the argument is prime
	number and 0 otherwise.
155.	Write a program in C for a function, which will accept a number and its power and print
	the result.
156.	To finding sum of 10 numbers using recursion function.
158.	Write a function program to interchange value of two variable.(Using global variable)
159.	Write a function which returns 1 if the given number is palindrome otherwise return 0.
160.	Swap the values of two variables using call by reference to a function.