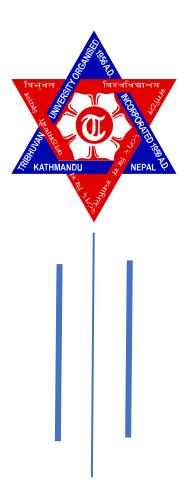
Tribhuvan University Institute of Science and Technology

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LAB SHEET



C-Lab Report Submitted By
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Submission Date:

S. No	Name	of Experiment	Date of Submission	Signature
1	1.	Write a program to display "hello world' in C		
		Write a program to enter two integers and then display		
		their sum		
	3.	Write a program to multiply two numbers (10&8) and		
		display its product.		
	4.	Write a program to calculate simple interest for given		
		P=4000, T=2 , R=5.5.		
2	1.	Write a program to prompt the user to input 3 integer		
		values and print these values in forward and reversed order.		
	2			
	۷.	Write a program that defines a variable and then increments and decrements the value of the variable		
		using the ++ (increment) and – (decrement) operators.		
		Print the value of the variable after each operation to		
		the console.		
	3.	Write a program to calculate simple and compound		
		interest.		
	4.	Write a program to swap two variables' values with		
		and without using third variables.		
	5.	Write a program to check odd or even number using		
		(a) modulus operator (b) using bitwise operator (c)		
		without using bitwise and modulus operator (d) using		
		conditional operator.		
	6.	Write a program that declares variables of different		
		data types) int, float, char etc.) and prints their sizes		
3	1.	using the size of operator.		
3	1.	Write a program to produce the output as shown. X y expression results		
		X y expression results 3 3 x=y+3 x=6		
		3 3 x=y-2 x=1		
		3 3 x=y*5 x=15		
		$\frac{3}{3} = \frac{3}{3} = \frac{3}{x = x/y} = \frac{x = 2}{x = 2}$		
		$3 3 x=x^{0}/_{0}y x=0$		
	2.	Given the three numbers $a(=8)$, $b(=4)$ and constant		
		value of PI =3.1415, calculate and display the		
		following using macros (preprocessor directives).		
	3.	Demonstrate the differences among getch(), getche(),		
		getchar(). Demonstrate the difference between scanf()		
		& gets(), printf() & puts().		
4	1.	Write a program to find the largest and smallest		
		among the three entered numbers and also display		
		whether the identified largest/smallest number is even		
	2.	or odd. Write a program to get input of two or higher digit		
	۷٠	integer number and display inverse order.		
	I	meger number and display inverse order.		1

	3. Write a program to read the values of coefficients a, b	
	and c of a quadratic equation ax ² +bx+c=0 and find	
	roots of the equation.	
5	Write a program to input two integer numbers and	
	display the sum of even numbers between these two	
	input numbers.	
	2. Write a program to display Fibonacci series of last	
	term up to 300.	
	3. Write a program using for loop with a break	
	statement to find the first prime number between 1	
	and 100 and print it.	
	4. Write a program using while loop to print the number	
	from 10 to 1 to the console.	
	5. Write a program to display the following pattern.	
	a)	
	1	
	1 2	
	1 2 3	
	1 2 3 1 2 3 4 1 2 3 4 5	
	1 2 3 4 5 b)	
	*	
	* *	
	* * *	
	* * * *	
	* * * *	
	c)	
	1 6 10 13 15	
	2 7 11 14 3 8 12	
	4 9	
	5	
6	1. Write a program to calculate sum of first 50 natural	
	numbers using recursive function.	
	2. Define a function named fact() to calculate factorial	
	of a number n and then write a program that uses this	
	function fact() to calculate combination and	
	permutation.	
	3. Write a recursive function to general Fibonacci	
	series.	
7	Write a program that creates a one-dimensional array	
	of 5 integers. Assign value to each element of an	
	array and print them to the console	
	2. Write a program that asks the user to enter 5 integers	
	and store them in an array. Print the elements of the	
	array in the console.	
	3. Write a program to read two matrices of order 3*2,	
	add them and display the resultant matrix in matrix	

	4.	form. Write a program that defines a function that takes an	
		array of integers as a parameter. The function should	
		print the sum of the elements in the array to the	
		console. Call the function with an array of your	
		choice.	
	5.	Write a program to multiply two 3*3 matrix.	
	6.	Write a program to read a string and check for	
		palindrome without using string related function.	
8	1.	Write a program to swap value of two variables using	
	2	pointer.	
	۷.	Write a program to copy one string to another string with and without suing string handling function.	
	2	Write a program to concatenate two strings.	
		Write a program to concatenate two strings. Write a program to sort string words stored in an	
	٦.	array of pointers.	
	5	Write a program to print the following pattern.	
9	1.		
	1.	address, phone, no Of Employee as member	
		variables. Read name of company, its address, phone	
		and noOfEmployee. Finally display the members'	
		value.	
	2.	Write a program which accepts structure as argument	
		and returns structure to the calling program.	
	3.	Write a program to read RollNo, Name, Address,	
		Age & average-marks of 12 students in the BCT calls	
		and display the details from functions.	
	4.	Wap that access the members of a structure using dot	
		operator. Create a structure to store information about	
		a rectangle, including its length and width. Compute	
		its area and print to the console.	
	5.	Write a program that creates a pointer to an integer	
		variable and prints its value to the console. Use the *	
		operator to declare the pointer.	
	6.	1 & 1	
		array of integers and prints its values to the console.	
	7.	Write a program that uses pointer to structure. Create	
		a structure to store information about book including	
		its title, author, and publication- year. Use a pointer	
		to the structure to access the members of the structure	
1.0		to display in console.	
10	1.	Write characters into a file 'file.txt'. The set of	
		characters are read from the keyboard until an enter	
	_	key is pressed (use putc() and getc() function).	
	2.	Read characters from file "file.txt" created in	

	question 1. Also count the number of character in the file (use fputs() and fgets() function)	
	3. Write set of strings each of length 40 into a file "string.txt" and display it (use fputs() and fgets()	
	function). 4. Write name, age and height of a person into a data file "person.txt" and read it (use fprintf () and fscanf()	
	function). 5. Write a program that copies the contents of one file to another. Use the fopen() function to open the source file and the destination file, and the use a loop to read and write each character in the source file.	
11	1. Two concentric circles have center point at (100,100). The inner circle should have radius 50 and outer have 75 pixels.	
	2. Wap that display text using the outtext() function. Experiment with different font, sizes and colors of the text.	
	3. A rectangle having a diagonal of length 100 pixels and its one end at point (10,20).	
	4. An ellipse having xRadius=100, yRadius=40 and center at point (100,50).	