	C.K.PITHAWALA COLLEGE OF ENGINEERING AND TECHNOLOGY
	PROGRAMMING FOR PROBLEM SOLVING
NAME:-………………………………….	ROLL NO:-…………………….
SEM:-……………………………....	BRANCH:- ………………….

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Set No.	Sr. No	Date	Problem Statement	Signature
1	1		Write a program to that performs as calculator (addition, multiplication, division, subtraction).	
	2		Write a program to calculate simple interest (i = (p*r*n)/100) i = Simple interest p = Principal amount r = Rate of interest n = Number of years	
	3		Write a C program to interchange two numbers.	
	4		Write a C program to enter a distance in to kilometre and convert it in to meter, feet, inches and centimetre	
	5		Write a C program to find out distance travelled by the equation $d = ut + 1/2(at^2)$	
2	1		Write a C program to find that the accepted number is Negative, or Positive or Zero.	
	2		Write a program to read marks of a student from keyboard whether the student is pass or fail(using if else)	
	3		Write a program to read three numbers from keyboard and find out maximum out of these three. (nested if else)	
	4		Write a program to read marks from keyboard and your program should display equivalent grade according to following table(if else ladder) Marks Grade 100 - 80 Distinction 79 - 60 First Class 59 - 40 Second Class < 40 Fail	
	5		Write a C program to read no 1 to 7 and print relatively day Sunday to Saturday. (using switch...case)	
3	1		Write a program to generate first n number of Fibonacci series	
	2		Write a program to find out sum of first and last digit of a given number.	
	3		Write a program to calculate average and total of 5 students for 3 subjects (use nested for loops)	
	4		Write a program to check whether the given number is prime or not.	
	5		Write a C program to find 1+1/2+1/3+1/4+....+1/n.	

	6		Write a program to check whether the range of given number is prime or not.
	7		Write a program to print following patterns :

1	*	12345	* * * * *	ABCDE	A
12	* *	1234	* * * *	ABCD	BB
123	* * *	123	* * *	ABC	CCC
1234	* * * *	12	* *	AB	DDDD
12345	* * * * *	1	*	A	EEEEE

4	1		Write a C program to read and store the roll no and marks of 20 students using array.
	2		Write a program to find out which number is even or odd from list of 10 numbers using array
	3		Write a C program to calculate the average, geometric and harmonic mean of n elements in an array.
	4		Write a program to sort given array in ascending order using Bubble sort.
	5		Write a program to find, replace, delete, reverse a character from given string.
5	1		Write a program that defines a function to add first n numbers.
	2		Write a function Exchange to interchange the values of two variables, say x and y. illustrate the use of this function in a calling function.
	3		Write a program to find factorial of a number using recursion.
	4		Write a C program using global variable, static variable.
	5		Write a function that will scan a character string passed as an argument and convert all lowercase character into their uppercase equivalents.
6	1		Define a structure type struct personal that would contain person name, date of joining and salary using this structure to read this information of 5 people and print the same on screen.
	2		Define structure data type called time_struct containing three member's integer hour, integer minute and integer second. Develop a program that would assign values to the individual number and display the time in the following format: 16: 40:51
7	1		Write a program to print address of variable using pointer.
	2		Write a C program to swap the two values using pointers.
	3		Write a C program to print the address of character and the character of string using pointer.
	4		Write a program for sorting using pointer.
8	1		A file named data contains series of integer numbers. Write a c program to read all numbers from file and then write all odd numbers into file named "odd" and write all even numbers into file named "even". Display all the contents of these file on screen