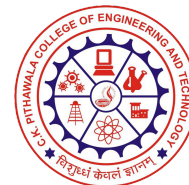




**C.K.PITHAWALLA COLLEGE OF ENGINEERING &
TECHNOLOGY, SURAT**
B. E. SEMESTER : I / II
PROGRAMMING FOR PROBLEM SOLVING (3110003)



NAME:-.....

ROLL NO:-.....

SEM:-.....

BRANCH:-.....

INDEX

| Set No | Sr No | Date | Description | Signature |
|--------|-------|------|---|-----------|
| 1 | 1 | | Write a program that performs as a 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 kilometer and convert it in to meter, feet, inches and centimeter | |
| | 5 | | Write a C program to find out distance traveled 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 the keyboard and find out the 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 the sum of the 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 given number is prime or not. | | | | | |
| | 7 | | Write a program to print following patterns : | | | | | |
| | 1 12 123 1234 12345 | * * * * * * * * * * * * * * * | 12345 1234 123 12 1 | * * * * * * * * * * * * * * * | ABCDE ABCD ABC AB A | A BB CCC DDDD EEEE | | |
| 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 a given array in ascending order using Bubble sort. | | | | | |
| | 5 | | Write a program to find, replace, delete, reverse a character from a 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 the factorial of a number using recursion. | | | | | |
| | 4 | | Write a C program using global variables, static variables. | | | | | |
| | 5 | | Write a function that will scan a character string passed as an argument and convert all lowercase characters 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 a 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 the address of a variable using a pointer. | | | | | |
| | 2 | | Write a C program to swap the two values using pointers. | | | | | |
| | 3 | | Write a C program to print the address of a character and the character of string using a pointer. | | | | | |
| | 4 | | Write a program for sorting using a pointer. | | | | | |
| 8 | 1 | | A file named data contains a series of integer numbers. Write a c program to read all numbers from a file and then write all odd numbers into a file named “odd” and write all even numbers into a file named “even”. Display all the contents of these file on screen | | | | | |