

C.K.Pithwala College of Engineering and Technology, Surat

Department : Computer Engineering

BE-I (2nd Sem)

Subject (Code):Computer Programming and Utilization(2110003)

Tutorial

Chapter 1 : Introduction				
1	Draw a flow chart to do the sum of 10 elements read from the user.			
2	Write an algorithm and draw a flowchart to print first N Fibonacci numbers.			
3	Write an algorithm for finding odd and even number from given two numbers.			
4	Draw flowchart menu driven C program for simple calculator.			
5	Write an algorithm and draw the flow chart to find the largest of the given three numbers – A ,B and C.			
Chapter 2 : Fundamental of ‘C’				
1	Write a C program to convert Celsius to Fahrenheit and vice versa			
Chapter 3 : Control structure in ‘C’				
1	Write a C program to display prime number between 1 to 100.			
2	Write a C Program to check whether the given number is prime or not.			
3	Write a program for below patterns :			
	1 1 2 1 2 3 1 2 3 4	* * * * * * * * * *	1 0 0 1 1 1 0 0 0 0	A B C D E A B C D A B C A B A
4	Write a program to check the number is Armstrong number or not.			
Chapter 4 : Array & String				
1	Write a C program to find maximum and minimum number from given array.			
2	Write a C Program to Multiply Two Matrices			
3	Write a C program to Calculate Average Using Arrays.			
4	Write a C Program to Put Even & Odd Elements of an Array in 2 Separate Arrays			
5	Write a C Program to Split an Array from Specified Position & Add First Part to the End.			
6	Write a program to reverse the input string.			
7	Write a program to determine the length of string without using strlen() function.			
8	Write a program to concatenate two strings without using built in function.			
9	Write a program to count number of vowels in a given string.			
Chapter 5 : Functions				

1	Write a program in c to generate Fibonacci series using function.(with and without using recursive call) (HINT : 0,1,1,2,3...)
2	Write a C program to swap two numbers using function.
Chapter 6 : Pointers	
1	Write a C Program to access array elements using pointer.
2	Write a C Program to demonstrate handling of pointers.
3	Write a C program to swap two numbers demonstrating call by value and call by pointer concept.
Chapter 7 : Structure	
1	Write a C program to Store Information in Structure and Display it.
2	Write a C program to demonstrate structure within structure
Chapter 8 : Dynamic memory allocation	
1	Write a C program to demonstrate malloc(),calloc(),free(),realloc().
Chapter 9 : File management	
1	Write file handling functions signature (prototype) and also write proper example of it. (like fopen(),fclose(),fseek(),fprintf(),fscanf())

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