

Galgotias College of Engineering and Technology 1, Knowledge Park II, Greater Noida - 201 306 (UP) India

REVISED FIRST YEAR ELECTRONICS SYLLABUS 2020-21

KCS- 151P	PROGRAMMING FOR PROBLEM	0L:1T:2P	1 Credit
KCS-251P	SOLVING	10109162000000	ENGINEERING CO.

Lab No.	Program	
LAB 1	1,	Write a program to calculate the area of triangle using formula at=√s(s-a)(s-b)(s-c)
	2	Basic salary of an employee is input through the keyboard. The DA is 25% of the basic salary while the HRA is 15% of the basic salary. Provident Fund is deducted at the rate of 10% of the gross salary (BS+DA+HRA). Program to calculate the Net Salary.
	3	Write a program to determine the roots of quadratic equation.
	4	Write a program to find the largest of three numbers using nested if else.
	5	Write a program to receive marks of physics, chemistry & maths from user & check its eligibility for course if a) Marks of physics > 40 b) Marks of chemistry > 50 c) Marks of math's > 60 d) Total of physics & math's marks > 150 or e) Total of three subjects marks > 200
LAB 2	6	Write a program to find the value of y for a particular value of n. The a, x, b, n is input by user if n=1 y=ax%b if n=2 y=ax2+b2 if n=3 y=a-bx if n=4 y=a+x/b
	7	Write a program to construct a Fibonacci series upto n terms.
	8	Write a program to find whether the number is Armstrong number.
	9	Write a program to generate sum of series 1!+2!+3!+n!
	10	Write a program to find the sum of following series 1-X1/1!+X2/2!- Xn/n!.
LAB 3	11	Write a program to print the entire prime no between 1 and 300.
	12	Write a program to print out all the Armstrong number between 100 and 500.
	13	Write a program to draw the following figure: 3 2 1 21 1



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	14	Write a program to receive a five-digit no and display as like 24689: 2 4 6 8	
LAB 4	15	Write a function that return sum of all the odd digits of a given positive no entered through keyboard.	
35	16	Write a program to print area of rectangle using function & return its value to main function.	
- 12	17	Write a program to calculate the factorial for given number using function.	
	18	Write a program to find sum of Fibonacci series using function.	
	19	Write factorial function & use the function to find the sum of series S=1!+2!+n!.	
LAB 5	20	Write a program to find the factorial of given number using recursion.	
	21	Write a program to find the sum of digits of a 5 digit number using recursion.	
	22	Write a program to calculate the GCD of given numbers using recursion.	
	23	Write a program to convert decimal number in to binary number.	
100	24	Write a program to convert binary number in to decimal number.	
LAB 6	25	Write a program to delete duplicate element in a list of 10 elements & display it on screen.	
	26	Write a program to merge two sorted array & no element is repeated during merging.	
	27	Write a program to evaluate the addition of diagonal elements of two square matrixes.	
	28	Write a program to find the transpose of a given matrix & check whether it is symmetric or not.	
18	29	Write a program to print the multiplication of two N*N (Square) matrix.	
LAB 7	30	Write a program in C to check whether the given string is a palindrome or not.	
	31	Write program to sort the array of character (String) in alphabetical order like STRING in GINRST.	
	32	Write a program to remove all the blank space from the string & print it, also count the no of characters.	
	33	Write a program to store the following string "zero", "one""five". Print the no in words, given in figure as 3205.	
LAB 8	34	Write a program to compare two given dates. To store a date uses a structure that contains three members namely day, month and year. If the dates are equal then display message equal otherwise unequal.	



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	35	Define a structure that can describe a hotel. It should have the member that includes the name, address, grade, room charge and number of rooms. Write a function to print out hotel of given grade in order of room charges.
Î	36	Define a structure called cricket with player name, team name, batting average, for 50 players & 5 teams. Print team wise list contains names of player with their batting average.
LAB 9	37	Write a c program to copy & count the character content of one file says a.txt to another file b.txt.
- 85	38	Write a program to take 10 integers from file and write square of these integer in other file.
	39	Write a program to read number from file and then write all 'odd' number to file ODD.txt & all even to file EVEN.txt.
	40	Write a program to print all the prime number, between 1 to 100 in file prime.txt.
	41	Write the following C program using pointer: a) To sort the list of numbers through pointer b) To reverse the string through pointer.
LAB 10	42	Write a program to find the largest no among 20 integers array using dynamic memory allocation.
	43	Using Dynamic Memory Allocation, Write a program to find the transpose of given matrix.
	44	Write a program to find the factorial of given number using command line argument.
	45	Write a program to find the sum of digits of a 5 digit number using command line argument.