

## P.G.D.C.A. Semester – II

### DCA-205 : Practical Based on DCA - 201 (Advance-C)

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
----	4	40	4	----	30	----	70	----	100

#### (Practical List)

1. Write a program to check the no. is Palindrome or not using UDF.S
2. Write a program to find factorial of given no using UDF.
3. Write a program to find factorial of given no using recursion.
4. Write a program to display first 25 terms of Fibonacci series using recursion.
5. Write a program to swap value of two integer number using UDF
6. Write a function prime that returns 1 if its argument is a prime and return zero Otherwise.
7. Write a program that will scan a character string passed as an argument and convert all Lowercase character into their uppercase equivalents using UDF.
8. Write a program that uses a UDF to sort an array of integer.
9. Write a program to search a number within an array using UDF.
10. Write a program which explains the use of nesting of functions.
11. Define a structure personal which contains person name, date of joining and salary . Develop the program to read this information for 5 persons and print the same on the screen.
12. Define a structure student which contains roll\_no, name and total marks obtained. Develop a program to read information for 10 students in a class and print them on the screen.
13. Write a program using structure within structure.
14. Define a structure called cricket that will describe the following information .  
Player name, Team name and runs.  
Using cricket, declare an array player with 10 elements and write a program to read the information about all 10 players and print a team-wise list containing names of players with their runs.
15. Write a program to print the value and address of the element.
16. Write a program to accept 10 numbers and display its sum using pointer.
17. Write a program to accept 10 numbers and sort them with use of pointer.
18. Write a program to swap the two values using pointers and UDF.
19. Write a program with structure and pointer.
20. Write a program using pointer to determine the length of a character string. 21. Write a program using pointers to read an array of integers and print its elements in reverse order.
22. Write a C program to Create one text file , store some information into it and print the same information on the screen.
23. A file named data contains series of integer no. Write a c program to read that no. and then Write all odd no into file named odd no. and write all even no into file named even no. Display all the contents of these file on screen.
24. Write a c program to input employee no, employee name and basic and to Store output into empdata file in following format.

-----  
A/c Department  
-----

Emp-No	Name	Basic	DA	HRA	MA	PF	GROSS	NET-PAY
1	xyz	5000	2500	500	100	500	8100	7600
2								
3								

-----

DA = 50% of Basic

HRA = 10% of Basic

MA = 100

PF = 10% of Basic

GROSS = BASIC + DA + HRA + MA

NET-PAY = GROSS - PF

25. Write a c program to read empdata file which is created in practical-24.  
And display all information on the screen.
26. Write a program using fseek and ftell functions.
27. Write a program to work as a dos copy con command using command line argument.
28. Write a C program to work as a dos type command using command line argument.
29. Write a C program to work as a dos copy command using command line argument.
30. Write programs which explain the use of memory allocation functions.

---

### Practical Exam Scheme:

Practical	Viva	Journal	Total
40 Marks	20 Marks	10 Marks	70 Marks

### Reference Books:

1. Programming in C, by Pradip Dey & Manas Ghosh, Publisher – Oxford
2. The Complete Reference, Herbert schildt Fourth Edition
3. Let Us C , Yashwant Kanetkar, BPB Publications
4. Programming in C, by Reena thareja Publisher – Oxford
5. Programming in ANSI C, Balagurusamy, Tata McGraw-Hill