

SDM College of Engineering and Technology, Dharwad – 580002
Department of Computer Science and Engineering

Course: Advance C Programming (22PLC25E)

Semester: II

Academic Year: 2022 – 2023 (EVEN SEM)

Course Teacher: JCK, SSV

Term-Work List

Unit	Term-Work	Problem Definition	CO's
I	TW1	Write a function maxmin () which returns maximum and minimum element of a given list of 'n' elements. Use this function to compute highest and lowest marks of 'n' students in a particular course. Process the array elements using pointers.	CO -1
	TW2	Using pointer write a function that receives a character string and a character as argument and delete all occurrences of this character in the string. The function should return the corrected string with no holes.	CO -1
II	TW3	A book shop uses a personal computer to maintain the inventory of books that are being sold at the shop. The list includes details such as author, title, price, publisher, stock position. etc. Whenever a customer want a book, the shop keeper inputs the title and author of the book and system replies whether it is in the list or not. If it is not in the list, an appropriate message is displayed. If it is in the list, then the system displays the book details and asks for number of copies. If the requested copies are available, the total cost of the books are displayed, otherwise the message "required copies not in the stock" is displayed.	CO -1,5
III	TW4	Write a C program to input a list of numbers within the range 0-4 from the user and then find the frequency of each of them.	CO -2,5
	TW5	Write a C program to store a character string in a block of memory space created by malloc () and then modify the same to store a largest string.	CO -2,5

	TW6	<p>Write a C program to open a file named INVENTORY and store in it the following data.:</p> <table> <thead> <tr> <th>Item name</th><th>Number</th><th>Price</th><th>Quantity</th></tr> </thead> <tbody> <tr> <td>AAA-1</td><td>111</td><td>17.5</td><td>115</td></tr> <tr> <td>BBB-2</td><td>125</td><td>36</td><td>75</td></tr> <tr> <td>CCC-3</td><td>247</td><td>31.75</td><td>104</td></tr> </tbody> </table> <p>Extend the program</p> <ol style="list-style-type: none"> To read the data from the file INVENTORY and display the inventory table with the values of each item. Append additional items to the file INVENTORY and print the total contents of the file. 	Item name	Number	Price	Quantity	AAA-1	111	17.5	115	BBB-2	125	36	75	CCC-3	247	31.75	104	CO -3
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AAA-1	111	17.5	115																
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V	TW7	Write a modular C program to sort the given marks of 'n' students in the course of C-programming. (use any sorting techniques)	CO -4																
	TW8	Write a modular c program to search an element from the array of 'n' elements using Binary search algorithm. If element is found return its index value otherwise return -1.	CO -4																