Name:	SRN:	Section:
	Date:	Week Number:

1	**1) Write a C program to generate Pascal triangle using two dimensional array** **Input:** Enter the n value: 4 **Output:** 1 1 1 1 2 1 1 3 3 1
	Program:
	Output Screenshot:
2	Write a C program to read elements in a matrix and check whether the given matrix is symmetric matrix or not. **Input:** Enter the value of m 3 Enter the value of n 3 Enter elements in matrix of size 3x3: 1 0 0 0 1 0 0

	0 1 **Output:** The given matrix is Symmetric matrix: 1 0 0 0 1 0 0 0 1
	Program:
	Output Screenshot:
3	Write a C program to compare 2 dates and print appropriate message using structures **Input1:** Enter Date1 in the format dd/mm/yyyy 12/2/2000 Enter Date2 in the format dd/mm/yyyy 12/2/2000 Date1=12/2/2000 Date2=12/2/2000 **Output1:** Date1 is equal to Date2 Input2: Enter Date1 in the format dd/mm/yyyy 12/3/2000 Enter Date2 in the format dd/mm/yyyy 12/3/2001 Date1=12/3/2000 Date2=12/3/2001 **Output2:** Date1 is smaller than Date2

	Input3: Enter Date1 in the format dd/mm/yyyy 12/4/1999 Enter Date2 in the format dd/mm/yyyy 12/2/1999 Date1=12/4/1999 Date2=12/2/1999 **Output3:** Date1 is greater than Date2
	Program:
	Output Screenshot:
4	Write a C Program to Add and subtract two Complex Numbers by Passing Structure to a Function **Input:** For 1st complex number Enter the real and imaginary parts: 5 4 For 2nd complex number Enter the real and imaginary parts: 3 2 **Output:** Sum = 8.0 + 6.0i Sub = 2.0 - 2.0i
	Program:
	Output Screenshot:
1	**Practice Programs** Write a program that fills a five-by-five matrix as follows: Upper left triangle with +1s Lower right triangle with -1s Right to left diagonal with zeros

	Display the contents of the matrix using not more than two printf statements **Output:** This is 5x5 Matrix 1 1 1 1 0 1 1 1 0 -1 1 1 0 -1 -1 1 0 -1 -1 -1 0 -1 -1 -1 -1
	Program:
	Output Screenshot:
2	Write a Program to add two distances in the inch-feet system using structures **Input:** Enter 1st distance Enter feet: 23 Enter inch: 10 Enter 2nd distance Enter feet: 34 Enter inch: 2.4 **Output:** Sum of distances = 58'-0.4"
	Program:
	Output Screenshot: