

## Assignment Sheet

1. Write a program to add three inputted numbers.
2. Write a program to convert temperature from Centigrade to Fahrenheit to Romar.  $[C/5=(F-32)/9=R/4]$
3. Write a program to multiply a number by another using floating-point precision.
4. Write a program to divide a number by another and notice the output and take corrective actions for erroneous output.
5. Write a program to calculate the net book price after inputting the gross book price where 13.75% discount is offered. Show the output:

<u>XYZ Book Stall</u>		
Book	Price (Rs.)	100.00
	Discount Price (Rs.)	13.75
	Net Price (Rs.)	86.25

6. Write a program to check whether the given number is three of digits or not.
7. Write a program that accepts three sides of a triangle and print whether they form a triangle or not.
8. Write a program to find the greatest of the three given numbers.
9. Write a program to check whether an inputted year is a leap year or not.
10. Write a program to calculate the telephone bill after taking the no of calls as given input. The calculation of bill will be calculated as follows:

No of Call	Charges / Calls
First 50	Null
Next 100	Rs.0.80
Next 250	Rs.1.00
Next 600	Rs.1.20
Above 1000	Rs.1.50

Rental Charges = 250.00 (Fixed for All consumers)

Bill Amount = Rental Charges + Call Charges + VAT (4% of Call Charges).

11. Write a program to find G.C.M and L.C.M of three given numbers.
12. Write a program to convert any decimal number to binary number.
13. Write a program to print a triangle of a whose height is given as an input

Input: 5

Output:     \*  
              \*\*  
              \*\*\*  
              \*\*\*\*  
              \*\*\*\*\*

14. Write a program to print the multiplication table.

Input: 3     1     2     3

1	1	2	3
2	2	4	6
3	3	6	9

15. Write a program to calculate the registration charges of the letters where weight is given input:

<b>Weight (gm)</b>	<b>Charges (Rs.)</b>
Weight <= 20	5.00
20 < Weight <= 100	9.00
100 < Weight <= 500	15.00
Weight > 500	“Not By Post”

16. Write a program to print a set of natural numbers between 1 to 100 and those numbers should be divisible by 3 but not by 6.

17. Write a program to check whether the number is divisible by 3 or not by using the algorithm; if the sum of the digits of the number is divisible by 3 then the number is divisible by 3 (three).

18. Write a program to print all the Fibonacci numbers between 1 and 100. A Fibonacci number is the number, which comes by adding its two previous terms.

19. Write a program to print all prime numbers between 1 to 100.

20. Write a program to print the sum of the digits of any six-digit number

21. Write a program that accepts a floating-point number find the sum of the digits before and after the decimal points.

22. Write a program to find the total amount payable by a bank after depositing an amount for a given period. The interest will be compounded by the formula as:  
 $A = P(1 + i/100)^n$ , where A=amount, P=principal, n=period and i=rate of interest.



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37. Write a program for addition of two numbers using macro.
38. Write a program to calculate the volume of a sphere **using macro**.
39. Write program to print factorial of a given number **using recursion**.
40. Write a program to print the Fibonacci Series **using recursion**.
41. Write a program for acceptance of numbers using dynamic memory allocation and print their sum.
42. Write a program for adding numbers using command line argument program
43. Create a passenger ticket information (ticket\_no , train\_no, journey\_date, from\_loc, to\_loc, pass\_name, gender, age, fare) using structure. Ticket booking, view of all ticket information can be done through the program.
44. Write a program that creates a data file contains a long text and count the numbers of characters stored in the text file.
45. Write a program that creates a singular link list and perform the following operations (a) Insert Node (b) Delete Node (c) Show the list
46. Write a program that creates a data file that will accept students roll number, name, marks obtained for a number of students and print their details.
47. Write a program that reads a text file and prints the number of words, lines, and vowels present.
48. Write a program that counts the number of odd and evens numbers present in a file.
49. Write a program that creates a structure having employee number, employee name, and salary drawn and perform the following operations.  
(a) Insert a value (b) Delete a value (c) Modify a value

**[Project Work Through C programming]**

1. Design a project for Library Management system.

[Hinds: Books entry, Members entry, Member's book transaction, Renew membership, late fees, and fine, books purchase information]

2. Design a project for School Management system.

[Hints: Student's Enrollment, Marks information, Fees Information should be maintained .]

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