PROBLEM LIST:

basic programming exercises:

1. Write a C program to perform input/output of all basic data types.
2. Write a C program to enter two numbers and find their sum.
3. Write a C program to enter two numbers and perform all arithmetic operations.
4. Write a C program to enter length and breadth of a rectangle and find its perimeter.
5. Write a C program to enter length and breadth of a rectangle and find its area.
6. Write a C program to enter radius of a circle and find its diameter, circumference and area.
7. Write a C program to enter length in centimeter and convert it into meter and kilometer.
8. Write a C program to enter temperature in Celsius and convert it into Fahrenheit.
9. Write a C program to enter temperature in Fahrenheit and convert to Celsius
10. Write a C program to convert days into years, weeks and days.
11. Write a C program to find power of any number x ^ y.
12. Write a C program to enter any number and calculate its square root.
13. Write a C program to enter two angles of a triangle and find the third angle.
14. Write a C program to enter base and height of a triangle and find its area.
15. Write a C program to calculate area of an equilateral triangle.
16. Write a C program to enter marks of five subjects and calculate total, average and percentage.
17. Write a C program to enter P, T, R and calculate Simple Interest.
18. Write a C program to enter P, T, R and calculate Compound Interest.

IF-ELSE PROBLEM:

19. Write a C program to find maximum between two numbers.
20. Write a C program to find maximum between three numbers.
21. Write a C program to check whether a number is negative, positive or zero.
22. Write a C program to check whether a number is divisible by 5 and 11 or not.
23. Write a C program to check whether a number is even or odd.

24. Write a C program to check whether a year is leap year or not.

25. Write a C program to check whether a character is alphabet or not.

26. Write a C program to input any alphabet and check whether it is vowel or consonant.

27. Write a C program to input any character and check whether it is alphabet, digit or special character.

28. Write a C program to check whether a character is uppercase or lowercase alphabet.

29. Write a C program to input week number and print week day.

30. Write a C program to input month number and print number of days in that month.

31. Write a C program to count total number of notes in given amount.

32. Write a C program to input angles of a triangle and check whether triangle is valid or not.

33. Write a C program to input all sides of a triangle and check whether triangle is valid or not.

34. Write a C program to check whether the triangle is equilateral, isosceles or scalene triangle.

35. Write a C program to find all roots of a quadratic equation.

36. Write a C program to calculate profit or loss.

37. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

Percentage	>=	90%	:	Grade	A
Percentage	>=	80%	:	Grade	B
Percentage	>=	70%	:	Grade	C
Percentage	>=	60%	:	Grade	D
Percentage	>=	40%	:	Grade	E

Percentage < 40% : Grade F

38. Write a C program to input basic salary of an employee and calculate its Gross salary according to following:

Basic	Salary	<=	10000	:	HRA	=	20%,	DA	=	80%
Basic	Salary	<=	20000	:	HRA	=	25%,	DA	=	90%

Basic Salary > 20000 : HRA = 30%, DA = 95%

39. Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:

For	first	50	units	Rs.	0.50/unit
For	next	100	units	Rs.	0.75/unit
For	next	100	units	Rs.	1.20/unit
For	unit	above	250	Rs.	1.50/unit

An additional surcharge of 20% is added to the bill

FOR LOOP PROBLEM:

40. Write a C program to print all natural numbers from 1 to n. - using while loop
41. Write a C program to print all natural numbers in reverse (from n to 1). - using while loop
42. Write a C program to print all alphabets from a to z. - using while loop
43. Write a C program to print all even numbers between 1 to 100. - using while loop
44. Write a C program to print all odd number between 1 to 100.
45. Write a C program to find sum of all natural numbers between 1 to n.
46. Write a C program to find sum of all even numbers between 1 to n.
47. Write a C program to find sum of all odd numbers between 1 to n.
48. Write a C program to print multiplication table of any number.
49. Write a C program to count number of digits in a number.
50. Write a C program to find first and last digit of a number.
51. Write a C program to find sum of first and last digit of a number.
52. Write a C program to swap first and last digits of a number.
53. Write a C program to calculate sum of digits of a number.
54. Write a C program to calculate product of digits of a number.
55. Write a C program to enter a number and print its reverse.
56. Write a C program to check whether a number is palindrome or not.
57. Write a C program to find frequency of each digit in a given integer.
58. Write a C program to enter a number and print it in words.
59. Write a C program to print all ASCII character with their values.
60. Write a C program to find power of a number using for loop.
61. Write a C program to find all factors of a number.
62. Write a C program to calculate factorial of a number.
63. Write a C program to find HCF (GCD) of two numbers.
64. Write a C program to find LCM of two numbers.
65. Write a C program to check whether a number is Prime number or not.
66. Write a C program to print all Prime numbers between 1 to n.
67. Write a C program to find sum of all prime numbers between 1 to n.
68. Write a C program to find all prime factors of a number.
69. Write a C program to check whether a number is Armstrong number or not.
70. Write a C program to print all Armstrong numbers between 1 to n.
71. Write a C program to check whether a number is Perfect number or not.
72. Write a C program to print all Perfect numbers between 1 to n.
73. Write a C program to check whether a number is Strong number or not.

74. Write a C program to print all Strong numbers between 1 to n.
75. Write a C program to print Fibonacci series up to n terms.