

Problems***(Based on simple Statements)***

2. Write a program to print your name and address.
3. Write a program to add two numbers.
4. Write a program to average of two numbers.
5. Accepts marks in five subjects and calculate the total percentage marks.
6. Write a program to print area of rectangle.
7. Write a program to print area and perimeter of square.
8. Write a program to print simple interest.
9. Write a program to enter radius of circle and calculate the area and perimeter of the circle.
10. Write a program to print the compound interest.
11. Write a program to calculate the area of triangle.
12. Write a program to convert Fahrenheit temperature in Celsius temperature.
13. Write a program to read the price of an item in decimal form (like 25.50) and print the output in paisa (like 2550 paisa).
14. Write a program to input the values of two variables and swap them, and then print them.
15. Write a program to input the values of two variables and swap them, then print them using without extra variable.
16. Write a program to input the values of three variables a, b and c, then rotate their values such that a has the value of b, b has the value of c and c has the value of a.
17. Write a program to input the values of three variables a, b and c, then rotate their values such that a has the value of b, b has the value of c and c has the value of a. Without using extra variable.
18. The price of one kg of rice is Rs. 16.75 and one kg of sugar is Rs. 40. write a program to get these values from the user and display the prices as follows:-

LIST OF ITEMS

Item	Price
Rice	Rs. 16.75
Sugar	Rs. 40.00

(Based on conditional Statements)

19. Write a program to input a number and check number is Positive or Negative.
20. Write a program to check a given year is leap or non-leap year.
21. Write a program to check a given number is Even or Odd.
22. Write a program to print greater number.
23. Write a program to print smallest number among three numbers.

24. Write a program to print greatest number among four numbers.
25. Write a program to input three numbers if first number is greatest then print sum of those numbers, if second number is greatest then print average of those numbers otherwise print multiplication of those numbers.
26. Write a program to print the area of triangle and its type.
27. Write a program to print net payment of an employ if basic salary \geq 5000 then

HRA=60% of BS

DA = 30% of BS

PF = 20% of BS

Otherwise no any HRA, DA, PF

28. Write a program to input name of student, marks of three subjects and print name, % marks and grade should be as following:-

If %marks \geq 75% A

%marks \geq 60% B

%marks \geq 40% C

Otherwise Fail

29. Write a program to check whether a date is valid or not. Assume that dates between years 1700 and 2050 are valid.
30. Write a program to find difference of two dates in years, months and days.
31. Write a program to print minimum notes of given amount as ATM program.
32. Write a program to print number name of a given number.

(Based on Looping Statements)

33. Write a program to print your name 10 times.
34. Write a program to print your name n times.
35. Write a program to print natural numbers till n.
36. Write a program to print all even numbers from 1 to n.
37. Write a program to print all odd numbers from 1 to n.
38. Write a program to check a given number is prime number or not.
39. Write a program to generate the prime number.
40. Write a program to check a given number is perfect number or not.
41. Write a program to generate the perfect number.
42. Write a program to print reverse number of a given number.
43. Write a program to check the palindrome or not.
44. Write a program to generate the palindrome number.
45. Write a program to check the Armstrong number.
46. Write a program to generate the Armstrong number.
47. Write a program to check a given is Fibonacci number or not.
48. Write a program to generate Fibonacci number.
49. Write a program to print factorial of given number.

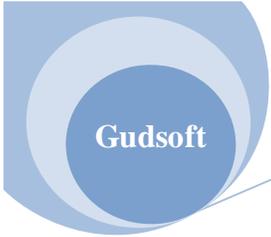
50. Write a program to print value of m^n .
51. Write a program to convert binary to decimal number system.
52. Write a program to calculate the LCM of two given numbers.
53. Write a program to calculate the HCF/GCD of two given numbers.
54. Write a program to add two number using do..while loop.
55. Write a program to print LCM and HCF of two number using do..while loop.
56. Write a menu based program in a c language to calculate the addition, subtraction, multiplication and division of two numbers.
57. Write a program to check a given alphabet is Vowel or Consonant using switch case.
58. Write a program to check a given number is even or odd using switch case.
59. Write a program to print number of digits of given number.
60. Write a program to print sum of all digits of given number.
61. Write a program to print difference of sum of even digits and odd digits.
62. Write a program to print the size of various data types in C.
63. Find the sum of these series up to n terms where x is an integer entered by the user:-
 - $1+2+4+7+11+16+\dots\dots\dots n$
 - $1+11+111+1111+\dots\dots\dots n$
 - $x+x^2+x^3+x^4+\dots\dots\dots x^n$
 - $x-x^2+x^3-x^4-\dots\dots\dots X^n$
 - $1/x-1/x^2+1/x^3-1/x^4+\dots\dots\dots 1/x^n$
64. Write the programs for following design/pyramids:-

- i) *
**

- ii) 1
22
333
4444
- iii) 1
12
123
1234
- iv) 1
2 3
4 5 6
7 8 9 10
- v) 2
34
456
5678
- vi) 1
01
101
0101
- vii) 4
43
432
4321
- viii) A
AB
ABC
ABCD
- ix) 4
33
222
1111
- x) * * * *
* * *
* *
*
- xi) 4444
333
22
1
- xii) 1234
123
12
1
- xiii) 4321
432
43
4
- xiv) 11111
2222
333
22
1
- xv) *
**

- xvi) *
* *
* * *
* * * *
- xvii) *

.....
- xviii) 1
123
12345
1234567



xix) 1
232
34543
4567654

xx) 4
343
23432
1234321

xxi) *****

*

xxii) 1234567
12345
123
1

xxiii) * * * *
* * *
* *
*

xxiv) *

*

xxv) 5
545
54345
5432345
543212345
5432345
54345
545
5

xxvi) 1
232
34543
4567654
567898765
4567654
34543
232
1

xxvii) 1
121
12321
1234321
12321
121
1

xxviii) A A
AB BA
ABC CBA
ABCD DCBA
ABCDEDCBA

xxix) * *
** **
*** **
***** **
***** **

xxx) *****
***** **
*** **
** **
* *

(Based on Array)

65. Write a program in language to read (input) an element in an array and print all elements of the array.
66. Write a program to print the sum of all element of an array.
67. Write a program to print the sum of all even elements of an array.
68. Write a program to print the sum of all odd elements of an array.
69. Write a program to print the greatest element of an array.
70. Write a program to print the reverse an array.
71. Write a program to reverse an array without using extra variable.
72. Write a program to concatenate of two arrays.
73. Write a program to add two single dimension arrays.
74. Write a program for linear search/sequential search.
75. Write a program for searching an element and also find number of occurrences.
76. Write a program to searching an element in an array and also find positions of searching element.
77. Write a program to insert a element in an array a specific position.
78. Write a program to deletion of an element in an array if poison is given.
79. Write a program to all deletion of given data in an array.
80. Write a program to deletion of first occurrence of given data in an array.
81. Write a program to selection sorting of an array.
82. Write a program to insertion sorting of an array.
83. Write a program to bubble sorting of an array.
84. Write a program for binary search, if the given array is sorted in ascending order.

(Based on Matrix)

85. Write a program to add two matrixes.
86. Write a program to print the transpose of matrix.
87. Write a program to find the sum of all elements of matrix.
88. Write a program to print the sum of all even elements of matrix.
89. Write a program to trace of matrix for sum of left diagonal.
90. Write a program to trace of matrix for sum of right diagonal.
91. Write a program to print the greatest and smallest element of a matrix.
92. Write a program to multiplication of two matrixes.
93. Write a program to print the sum of row wise and column wise elements of matrix.