



OPENTECHZ

LOGICAL QUESTION



CONTACT NO

8144469762



EMAIL

info@opentechz.com



LOCATION

Plot No A/58,Phase-2,Krishna
Garden, Jagamara,BBSR-751030

Director
Bibhu Ranjan Mohanty



www.opentechz.com





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1. Write a program to find the maximum between two numbers.
2. Write a program to find the maximum between three numbers.
3. Write a program to check whether a number is negative, positive, or zero.
4. Write a program to check whether a number is divisible by 5 and 11 or not.
5. Write a program to check whether a number is even or odd.
6. Write a program to check whether a year is a leap year or not.
7. Write a program to check whether a character is an alphabet or not.
8. Write a program to input any alphabet and check whether it is a vowel or consonant.
9. Write a program to input any character and check whether it is the alphabet, digit, or special character.
10. Write a program to check whether a character is uppercase or lowercase alphabet.
11. Write a program to input the week number and print the weekday.
12. Write a program to input the month number and print the number of days in that month.
13. Write a program to count the total number of notes in a given amount.
14. Write a program to input the angles of a triangle and check whether a triangle is valid or not.
15. Write a program to input all sides of a triangle and check whether a triangle is valid or not.
16. Write a program to check whether the triangle is equilateral, isosceles, or scalene triangle.
17. Write a program to find all roots of a quadratic equation.
18. Write a program to calculate profit or loss.
19. Write a program to convert temperature from Fahrenheit to Celsius and Celsius to Fahrenheit.
20. Write a program to check the sign of a given number.



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- 21. Write a program Check whether a given number is even or odd.**
- 22. Write a program Write a program to input the basic salary of an employee and calculate its Gross salary according to the following:**
- Basic Salary ≤ 10000 : HRA = 20%, DA = 80%
 - Basic Salary ≤ 20000 : HRA = 25%, DA = 90%
 - Basic Salary > 20000 : HRA = 30%, DA = 95%
- 23. Write a program to input electricity unit charges and calculate the total electricity bill according to the given condition:**
- For the first 50 units Rs. 0.50/unit
 - For the next 100 units Rs. 0.75/unit
 - For the next 100 units Rs. 1.20/unit
 - For units above 250 Rs. 1.50/unit
 - An additional surcharge of 20% is added to the bill





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1. Write a program to print all natural numbers from 1 to n.
2. Write a program to print all natural numbers in reverse.
3. Write a program to print tables.
4. Write a program to print reverse tables.
5. Write a program to print all alphabets from A to z.
6. Write a program to print reverse alphabets from Z to A.
7. Write a program to print all even numbers between 1 to 100.
8. Write a program to print all odd numbers between 1 to 100.
9. Write a program to find the sum of all natural numbers between 1 to n.
10. Write a program to find the sum of all even numbers between 1 to n.
11. Write a program to find the sum of all odd numbers between 1 to n.
12. Write a program to print the ASCII values.
13. Write a program to find the factorial value of any number.
14. Write a program to find the value of one number raised to the power of another.
15. write a program to reverse the given Digits.
16. write a program, to sum up its Digits.
17. write a program to Check Whether a Given Number is Prime or Not.
18. Write a program to calculate the HCF of Two given number.
19. Write a program to enter the numbers till the user wants and at the end, it should display the count of positive, negative and zeros entered.
20. Write a program to enter the numbers till the user wants and at the end, the program should display the largest and smallest numbers entered.
21. Write a program to find the number and sum of all integers between 100 and 200 which are divisible by 9.
22. Write a program to convert a binary number into a decimal number without using array, function, and while loop.



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23. Write a Program to Check Given Number is a Palindrome or Not.
24. Write a program to convert Hexadecimal to Decimal number system.
25. Write a Program to convert Hexadecimal to Octal number system.
26. Write a program to convert Hexadecimal to Binary number system.
27. Write a program to convert Decimal to Hexadecimal number system.
28. Write a program to convert the Decimal to an Octal number system.
29. Write a program to convert Decimal to Binary number system.
30. Write a Program to convert Binary to Octal number system.
31. Write a program to convert Binary to Decimal number system.
32. Write a program to convert Binary to Hexadecimal number system.
33. Write a program to convert Octal to a Binary number system.
34. Write a program to convert Octal to Decimal number system.
35. Write a program to convert Octal to Hexadecimal number system.
36. Write a program to find the 1s complement of a number .
37. Write a program to find the 2s complement of a Binary number .
38. Write a program to print the Fibonacci series upto n terms.
39. Write a program to check Strong numbers or Not.
40. Write a program to print All Strong numbers 1 to 100000.
41. Write a Program to print All perfect numbers 1 to 10000.
42. Write a Program to check perfect numbers or Not.
43. Write a Program to print All Armstrong numbers between 1 to 1000.
44. Write a Program to check Armstrong numbers or Not.
45. Write a Program to print Prime factors .
46. Write a Program to check Prime numbers or Not.
47. Write a Program to print Factors of a Positive Integer.
48. Write a Program to print Factors of a Negative Integer.
49. Write a program to check whether a number is a Strong Number or not.



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50. Write a Program to Check Given String is a Palindrome or Not.
51. Write a program to print bits that need to be flipped to convert a number to another number.
52. Write a program to Count the number of bits to be flipped to convert a number to another number.
53. Write a program to Round off an integer number to the next lower multiple of 2.
54. Write a program to Find the position of the MSB bit of an integer number.
55. Write a program to Count the total HIGH bits in the given number.
56. Write a program to Implement an infinite loop using a do-while loop.
57. Write a program to Implement an infinite loop using a while loop.
58. Write a program to Implement an infinite loop using for loop.
59. Write a program to Print string in hexadecimal format.
60. Write a program to Find the (GCD) Greatest Common Divisor.
61. Write a program to Find the (LCM) Lowest Common Multiple.
62. Write a program to Extract words from a given sentence.
63. Write a program to Print Fibonacci Series.
64. Write a program to Find the Factorial of a Number.
65. Write a program to Generate Random Numbers from 0 to a given Range.
66. Write a program to Find the addition of N integer numbers.
67. Write a program to count the total number of words in a string.
68. Write a program to print using different characters (letters) in a string.

