

Python Assignment

1. Write a Python program to print "Hello, World!".
2. Write a program to check if a number is even or odd.
3. Create a program to find the sum of all numbers from 1 to N (where N is entered by the user).
4. Calculate the factorial of a number.
5. Write a Python program to reverse a string.
6. Create a program that checks if a given number is prime.
7. Calculate the square root of a number.
8. Create a simple calculator program that performs addition, subtraction, multiplication, and division.
9. Generate a list of even numbers from 1 to N.
10. Check if a given string is a palindrome or not.
11. Write a program to find the largest element in a list.
12. Generate a Fibonacci sequence up to N terms.
13. Write a program to count the number of vowels in a string.
14. Determine if a year is a leap year or not.
15. Write a Python program to sort a list of numbers in ascending order.
16. Find the smallest element in a list.
17. Create a program that counts the number of words in a sentence.
18. Calculate the sum of all digits in a given number.
19. Write a Python program to remove duplicate elements from a list.
20. Convert all string values in list to UPPER case
21. Populate new list with squares from given list [using while loop]
22. Populate new list with squares from given list [using for loop]
23. Give abbreviation for CDE [using for loop with if else] --> c= cloud, d=data,e=engineer
24. Give abbreviation for CDE [using while loop with if else] --> c= cloud, d=data,e=engineer
25. Write a Python program to check if a number is positive, negative, or zero. using `if-else`
26. Create a program to determine if a year is a leap year using `if-else` statements.
27. Check if a given number is even or odd using `if-else`.
28. Implement a simple grading system where you input a student's score and print their grade using `if-else`.
29. Write a program that determines if a number is a multiple of 5 or 7 using `if-else`.
30. Create a program to find the largest of three numbers using `if-else`.
31. Check if a given character is a vowel or a consonant using `if-else`.
32. Calculate the BMI (Body Mass Index) of a person and categorize it (e.g., underweight, normal, overweight) using `if-else`.
33. Write a Python program to print all the numbers from 1 to N using a `for` loop (where N is entered by the user).
34. Create a program to calculate the sum of all even numbers from 1 to N using a `for` loop.
35. Print the multiplication table of a given number using a `for` loop.
36. Write a program to calculate the factorial of a number using a `for` loop.
37. Implement a simple countdown timer that starts from N and counts down to 1 using a `for` loop.
38. Write a program to find the sum of squares of all numbers from 1 to N using a `for` loop.
39. Calculate the product of all elements in a list using a `for` loop.
40. Create a program that counts the number of digits in a given number using a `for` loop.
41. Find and print all the even numbers between 1 and N that are also divisible by 3 using `if-else` and a `for` loop.
42. Calculate the sum of squares of all even numbers from 1 to N using `if-else` and a `for` loop.
43. Write a program to find and print the first N Fibonacci numbers using `if-else` and a `for` loop.
44. Calculate the sum of all prime numbers from 1 to N using a for loop.
45. Generate a list of all the factors of a given number using a for loop.