R3WEBSKILUP SUMMER 2023

TASK - 002   Date: 30/07/2023

1. Write a Python program to print all even numbers between 1 and 20 using a for loop.

2. Write a Python program to find the sum of all odd numbers between 1 and 50 using a while loop.

3. Given a list of numbers, write a Python program to find and print the maximum number using a for loop and if-else statement.

4. Write a Python program to check if a given number is prime using a for loop and an if-else statement.

5. Write a Python program to calculate the factorial of a given number using a while loop.

6. Given a list of strings, write a Python program to find the longest string using a for loop and if-else statement.

7. Write a Python program to print the Fibonacci series up to n terms using a while loop.

8. Write a Python program to check if a given string is a palindrome using a for loop and an if-else statement.

9. Given a list of integers, write a Python program to calculate the sum of positive and negative numbers separately using a for loop and if-else statements.

10. Write a Python program to print the multiplication table of a given number using a for loop.

11. Given a n no of numbers, write a Python program to count how many are even and how many are odd using a for loop and if-else statements.

12. Write a Python program to simulate a simple dice game using a while loop and an if-else statement.

13. Write a Python program to check if a given number is a perfect square using a for loop and an if-else statement.

14. Given a list of strings, write a Python program to count the number of vowels and consonants using a for loop and if-else statements.

15. Write a Python program to find the factorial of a given number using both iterative approaches. Use a for loop in the iterative version.

16. Write a Python program to generate the first n prime numbers using a while loop and a for loop.

17. Given a list of integers, write a Python program to find and print the second-largest number using a for loop and if-else statement.

18. Write a Python program that takes a year as input and checks if it's a leap year using an if-else statement.

19. Write a Python program to reverse a given string using both a for loop and a while loop.

20. Write a Python program to find and print all the Armstrong numbers between 1 and 1000. Armstrong numbers are numbers that are equal to the sum of their digits raised to the power of the number of digits they have. For example, 153 is an Armstrong number since 1^3 + 5^3 + 3^3 = 153.

Instruction for Solution Submission:

1. Copy all the files into a folder

2. Right click and send it to create zip (compress zip folder).

3. Rename it to "Yourname_taskno_date"

4. Upload it to Discord Server.

Quote of the day:

"Start coding, dream big, and never stop learning"