28/05/2024

Homework

WAP in C++ to:

- 1. Calculate average of n numbers entered by the user.
- 2. Calculate sum of n numbers entered by the user.
- 3. Ask user to enter n names and print them (you can print right as you take input)
- 4. Enter a string (line) and print all of it's words
- 5. Reverse digits of a number.
- 6. Check if a number is Armstrong number or not (A number is Armstrong if the sum of cube of digits of the number is equal to the original number)
- 7. Check if a number is prime (A prime number is a number greater than 1, that has no factors other than 1 and itself, m is a factor of n if $nMODm \equiv 0$).
- 8. Print first n prime numbers.
- 9. Calculate factorial of a number entered by the user.
- 10. Reverse a string
- 11. Reverse the words of a string.
- 12. Implement the Collatz's conjecture.
- 13. Print all the factors of a number.
- 14. Print all the prime factors of a number.
- 15. Print the following patterns: