Practice Questions of while loop

Q1. Write a program to print numbers from 1 to 30, skipping all multiples of 3. Use a while loop and continue to skip the numbers that are divisible by 3.

Q2. Write a program that takes input from the user and checks if a number is prime. Use a while loop to iterate through divisors, and use break to exit the loop early if a divisor is found.

Q3. Write a python program to find the nth term of the Fibonacci series. If n is taken as an input.

Explanation:

Fibonacci series: 0, 1, 1, 2, 3, 5, 8, 13, 21….

Q4. An elevator has a maximum capacity of 600 kg. People enter one by one.

Write a python program where weights are taken as input by the user.

- Use a while loop to keep adding weights.
- Stop and display a message if the elevator is full or overloaded.

Q5. Write a python program to simulate an ATM withdrawal system where:

- A user starts with a balance of 5000.

- The user can withdraw amounts one by one using a while loop.

- Stop if the balance becomes 0, or the user types exit.

- Ensure the program prevents withdrawals larger than the current balance.

Q6. Write a python program which simulate a password checker that gives the user 3 attempts to enter the correct password. Use a while loop to prompt the user, and break if they enter the correct password. If the user exhausts all attempts, display a lockout message.