

Certainly! Here are some coding practice questions based on while loops:

1. Countdown Timer:

Write a program that takes an integer input from the user and counts down from that number to 1 using a while loop.

2. Factorial Calculation:

Write a program that calculates the factorial of a given positive integer using a while loop.

3. Guess the Number Game:

Create a simple number guessing game where the computer selects a random number between 1 and 100, and the user has to guess it. Use a while loop to keep the game running until the user guesses correctly.

4. Sum of Even Numbers:

Write a program that calculates the sum of all even numbers from 1 to n, where n is an integer input by the user, using a while loop.

5. Password Validation:

Implement a program that asks the user to enter a password and keeps asking until the correct password is entered. Use a while loop for this.

6. Fibonacci Sequence:

Write a program that generates and prints the first n terms of the Fibonacci sequence using a while loop.

7. Multiplication Table:

Create a program that takes an integer as input and prints the multiplication table for that number from 1 to 10 using a while loop.

8. Palindrome Checker:

Write a program that checks if a given string is a palindrome (reads the same forwards and backwards) using a while loop.

9. Sum of Digits:

Implement a program that calculates the sum of the digits of a given integer using a while loop.

10. Prime Number Checker:

Write a program that checks if a given number is prime or not using a while loop.

Remember to provide appropriate prompts, handle user input validation, and test your code with different inputs to ensure it works correctly. These exercises cover a range of while loop use cases and should help you practice your coding skills.