Exercise 1: For Loop

Problem: Write a program that prints the numbers from 1 to 10 using a `for` loop.

Exercise 2: While Loop

Problem: Write a program that asks the user to enter a positive number. Keep asking the user for a number until they enter a positive one. Once they enter a positive number, print it.

Exercise 3: Nested Loops

Problem: Write a program that prints a multiplication table for numbers 1 to 5. Use nested loops to generate the table.

Exercise 4: Simple Function

Problem: Write a function `greet` that takes a name as input and prints a greeting message, e.g., "Hello, [name]!".

Exercise 5: Function with Loop

Problem: Write a function `countdown` that takes a number as input and prints a countdown from that number to zero using a loop.

Exercise 6: Function with Loop and Data Types (Lists)

Problem: Write a function `print_list` that takes a list of strings as input and prints each string on a new line using a loop. Then, demonstrate the function with a list of your choice.

Exercise 7: Using `break` and `continue`

Problem: Write a program that asks the user to enter numbers. If the user enters a negative number, the program should stop asking for input (using `break`). If the user enters a number greater than 100, the program should ignore it (using `continue`). Print each valid number entered by the user.

Exercise 8: Strings as Lists

Problem: Write a function `reverse_string` that takes a string as input and returns the string reversed by treating it as a list of characters. Do not use any built-in string reversing methods.