

String Length Checker

Write a function that checks the length of a string provided by the user. Handle the `TypeError` by raising a custom exception if the input is not a string.

List Element Removal

Write a function that removes an element at a specified index from a list. Handle the `IndexError` by raising a custom exception if the index is out of range.

URL Validator

Write a function that validates a URL string. Handle the `ValueError` by raising a custom exception if the URL format is invalid. Write a function that removes an element at a specified index from a list. Handle the `IndexError` by raising a custom exception if the index is out of range.

Login System

Write a simple login system where the user enters a username and password. Handle the `KeyError` by raising a custom exception if the username is not found in the users database(dictionary).

Type Conversion:

Write a function that prompts the user to enter a number and tries to convert it to an integer. Handle the `TypeError` exception by printing a message indicating that the input is not a valid number. Use a finally block to print "Type conversion process completed."