Lesson 10 Assignment

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Source code:

##Lesson 10 Assignment

#function to index and find the sub-string

def find(string, sub\_string):

    index = string.find(sub\_string)

    if index != -1:

        print(f"'{sub\_string}' was found at index {index}")

    else:

        print(f"'{sub\_string}' not found!")

    return index

#function to ask user if they want to replace the substring, requires the user

#to enter y or n, otherwise gives invalid entry message

def replace\_choice():

    while True:

        choice = input("Do you want to replace the sub-string with a new string? y/n : ")

        if choice in ['y','n']:

            return choice == 'y'

        else:

            print("Invalid entry, please enter y for yes or n for no!")

#function to replace the sub-string

def replace(string, sub\_string):

    new = input("Please enter the new string: ")

    new\_string = string.replace(sub\_string, new)

    print(f"New String: {new\_string}")

    return new\_string

def main():

    print("String Replacement Tool")

    print("-" \* 20)

    #variables to store the string and sub-string the user enters

    string = input("Enter the string you want to search through: ")

    sub\_string = input("Enter the string you want to search for: ")

    print("-" \* 20)

    #calling on the find() replace\_choice() and replace() functions:

    index = find(string, sub\_string)

    if index != -1:

        if replace\_choice():

            replace(string,sub\_string)

        else:

            print("No replacement was made.")

    else:

        print("Sub-string not found so no replacement was made.")

    print("-" \* 20)

    print("Thank you for using the String Replacement Tool!")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

print("-" \* 20)

print("Completed by Laura Bartlett")

Screenshot:

A screenshot of a computer program

Description automatically generated