**Lesson 10 Assignment**

**Source Code:**

def get\_input(prompt):

# Function to get user input

return input(prompt)

def search\_substring(main\_string, sub\_string):

# Function to search for the substring and return its index

index = main\_string.find(sub\_string)

if index != -1:

print(f"The substring was found at index {index}.")

else:

print("The substring was not found.")

return index

def replace\_substring(main\_string, sub\_string):

# Function to replace the substring if user chooses to

user\_choice = get\_input("Do you want to replace the substring? (yes/no): ").lower()

while user\_choice not in ['yes', 'no']:

print("Invalid input. Please enter 'yes' or 'no'.")

user\_choice = get\_input("Do you want to replace the substring? (yes/no): ").lower()

if user\_choice == 'yes':

new\_string = get\_input("Enter the new string to replace the substring: ")

updated\_string = main\_string.replace(sub\_string, new\_string)

print(f"Updated string: {updated\_string}")

else:

print("No replacement was made.")

def main():

# Main function

print("This is Yashoda's program that searches a substring and optionally replaces it.")

# Get user input

main\_string = get\_input("Enter the main string: ")

sub\_string = get\_input("Enter the substring that you want to search for: ")

# Search for the substring

index = search\_substring(main\_string, sub\_string)

# If found, ask if the user wants to replace it

if index != -1:

replace\_substring(main\_string, sub\_string)

# Call main to run the program

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

main()

# Thanking the user

print("Thank you for using the program!!")

#Printing the name of the user

print("Completed by Yashoda Dhital")

**Output:**

