Python assignment

Write a program to concatenate , reverse and slice a string?

#Reverse a string

def string\_reverse(str1):

rstr1 = ''

index = len(str1)

while index > 0:

rstr1 += str1[ index - 1 ]

index = index - 1

return rstr1

print(string\_reverse('1234abcd'))

sample output;

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#concatenate a string

str1="python is"

str2="programing language"

print ("String 1:",str1)

print ("String 2:",str2)

str=str1+str2

print("Concatenated two different strings:",str)

sample output

String 1: python is

String 2: programing language

Concatenated two different strings: python is programing language

#slice a string

# Python program to demonstrate

# string slicing

# String slicing

String = 'ASTRING'

# Using slice constructor

s1 = slice(3)

s2 = slice(1, 5, 2)

s3 = slice(-1, -12, -2)

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print(String[s1])

print(String[s2])

print(String[s3])

sample output;

String slicing

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#calculator program

# Program make a simple calculator

# This function adds two numbers

def add(x, y):

return x + y

# This function subtracts two numbers

def subtract(x, y):

return x - y

# This function multiplies two numbers

def multiply(x, y):

return x \* y

# This function divides two numbers

def divide(x, y):

return x / y

print("Select operation.")

print("1.Add")

print("2.Subtract")

print("3.Multiply")

print("4.Divide")

while True:

# take input from the user

choice = input("Enter choice(1/2/3/4): ")

# check if choice is one of the four options

if choice in ('1', '2', '3', '4'):

num1 = float(input("Enter first number: "))

num2 = float(input("Enter second number: "))

if choice == '1':

print(num1, "+", num2, "=", add(num1, num2))

elif choice == '2':

print(num1, "-", num2, "=", subtract(num1, num2))

elif choice == '3':

print(num1, "\*", num2, "=", multiply(num1, num2))

elif choice == '4':

print(num1, "/", num2, "=", divide(num1, num2))

# check if user wants another calculation

# break the while loop if answer is no

next\_calculation = input("Let's do next calculation? (yes/no): ")

if next\_calculation == "no":

break

else:

print("Invalid Input")

sample output;

Select operation.

1.Add

2.Subtract

3.Multiply

4.Divide

Enter choice(1/2/3/4): 3

Enter first number: 15

Enter second number: 14

15.0 \* 14.0 = 210.0

Let's do next calculation? (yes/no): no